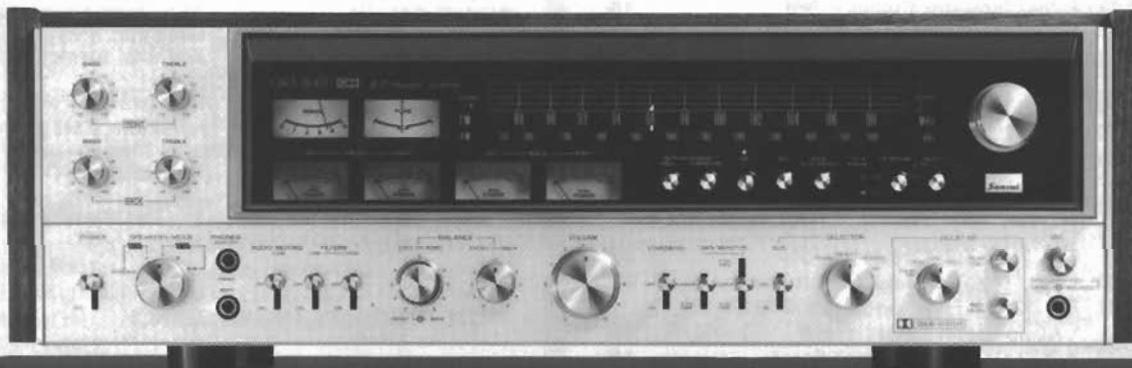


TECHNICAL
SPECIFICATIONS

SERVICE MANUAL

4-CHANNEL RECEIVER

SANSUI QRX-8001/9001



Sansui

SANSUI ELECTRIC CO., LTD.

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1. SPECIFICATIONS

AUDIO SECTION

〈QRX-8001〉

POWER OUTPUT

Min. RMS. four channels driven, from 20 to 20,000Hz, with no more than 0.3% total harmonic distortion

40 watts per channel into 8 ohms

40 watts per channel into 4 ohms

Min RMS four channels driven at 1,000Hz with no more than 0.3% total harmonic distortion

43 watts per channel into 8 ohms

43 watts per channel into 4 ohms

Min. RMS. both channels driven from 20 to 20,000Hz, with no more than 0.3% total harmonic distortion and SPEAKERS/MODE switch at 2-CH A (POWER × 2)

100 watts per channel into 8 ohms

Min RMS both channels driven at 1,000Hz with no more than 0.3% total harmonic distortion and SPEAKERS/MODE switch at 2-CH A (POWER × 2)

110 watts per channel into 8 ohms

〈QRX-9001〉

POWER OUTPUT

Min. RMS. four channels driven, from 20 to 20,000Hz, with no more than 0.3% total harmonic distortion

60 watts per channel into 8 ohms

60 watts per channel into 4 ohms

Min RMS four channels driven at 1,000Hz with no more than 0.3% total harmonic distortion

65 watts per channel into 8 ohms

65 watts per channel into 4 ohms

Min. RMS. both channels driven, from 20 to 20,000Hz, with no more than 0.3% total harmonic distortion and SPEAKERS/MODE switch at 2-CH A (POWER × 2)

120 watts per channel into 8 ohms

Min RMS both channels driven at 1,000Hz with no more than 0.3% total harmonic distortion and SPEAKERS/MODE switch at 2-CH A (POWER × 2)

140 watts per channel into 8 ohms

〈QRX-8001〉 〈QRX-9001〉

LOAD IMPEDANCE

SPEAKERS/MODE Switch at 2-CH—A, 4-CH—A and 4-CH—B
.....4 and 8 ohms

SPEAKERS/MODE switch at 2-CH—A(POWER × 2) and 4-CH—
A+B8 ohms

POWER BANDWIDTH20 to 20,000Hz at or below
rated min. RMS power output
and total harmonic distortion

TOTAL HARMONIC DISTORTION

.....less than 0.3% at or below
rated min. RMS power output

INTERMODULATION DISTORTION (70Hz:7kHz 4:1 SMPTE
method)less than 0.3%

FREQUENCY RESPONSE (at 1 watt)

.....20 to 30,000Hz ±1dB

RIAA CURVE DEVIATION (PHONO)

.....±1.0dB, -1.0dB (30Hz to 15kHz)

DAMPING FACTORapproximately 30 at 8-ohm load

INPUT SENSITIVITY AND IMPEDANCE
(1kHz, for rated power output)

PHONO (2-channel)2.5mV/50 kilohms
(Max. input capability: 150mV at 1kHz, less than 0.3%
total harmonic distortion.)

TAPE PLAY (pin jacks)100mV/50 kilohms

TAPE-1 REC/PLAY (DIN socket)100mV/50 kilohms

AUX100mV/50 kilohms

MIC4mV/10 kilohms

RECORDING OUTPUT

TAPE REC (pin jacks)100mV

TAPE-1 REC/PLAY (DIN socket)30mV

CHANNEL SEPARATION (at rated output 1kHz)

PHONObetter than 45dB

TAPE PLAY, AUXbetter than 45dB

HUM AND NOISE

PHONObetter than 70dB

TAPE PLAY, AUXbetter than 80dB

CONTROLS

BASS	±10dB (50Hz)
TREBLE	±10dB (10kHz)
LOUDNESS	+8dB (50Hz) +3dB (10kHz)
LOW FILTER	-10dB (50Hz)
HIGH FILTER.....	-10dB (10kHz)
AUDIO MUTING.....	-20dB

4-CHANNEL DECODER SECTION**QS DECODER (Type-A QS vario-matrix)***

SEPARATION	20dB between adjacent channels 30dB between diagonal channels
DISTORTION	less than 0.1% (at 1kHz)
FREQUENCY RESPONSE....	20 to 30,000Hz

QS SYNTHESIZER (Type-A QS vario-matrix)

SEPARATION	equivalent to QS decoder
DISTORTION	equivalent to QS decoder
FREQUENCY RESPONSE....	equivalent to QS decoder

SQ FUNCTION (Phase Matrix)**

SEPARATION	20dB (left front to right front) 12dB (center front to center back)
------------------	--

CD-4 DEMODULATOR***

INPUT SENSITIVITY	2.5mV
INPUT IMPEDANCE	50 kilohms
SEPARATION (Standard test signal at 1kHz)	40dB (left to right) 25dB (front to back)
FREQUENCY RESPONSE (Standard test signal at REC output)	30 to 15,000Hz (main-channel)

<QRX-9001 Only>**DOLBY NOISE REDUCTION EFFECT†**

.....10dB (above 5kHz)

FM SECTION**<QRX-8001>**

TUNING RANGE	88 to 108MHz
USABLE SENSITIVITY (IHF)....	10.8dBf (1.9μV) (DIN) ..1.1μV (1kHz, Modulation 30%, S/N 26dB)

50dB QUIETING SENSITIVITY

STEREO (IHF)	38dBf (45μV)
MONO (IHF).....	16dBf (3.5μV)

TOTAL HARMONIC DISTORTION

STEREO	less than 0.5% (1kHz)
MONO	less than 0.4% (1kHz)

SIGNAL TO NOISE RATIO

STEREO	better than 60dB
MONO	better than 65dB

ALTERNATE CHANNEL SELECTIVITY

.....better than 60dB (±400kHz)

CAPTURE RATIO

.....less than 2.2dB

AM SUPPRESSION.....

.....better than 50dB

IMAGE RESPONSE RATIO (IHF)

.....better than 50dB (98MHz)

IF RESPONSE RATIO (IHF)better than 75dB (98MHz)

SPURIOUS RESPONSE RATIO (IHF)

.....better than 70dB (98MHz)

SPURIOUS RADIATION

.....less than 34dB

STEREO SEPARATION

.....better than 30dB (100Hz)

.....better than 40dB (1kHz)

.....better than 25dB (10kHz)

FREQUENCY RESPONSE(IHF) ..+1.0dB, -3.0dB (30 to 15,000Hz)

ANTENNA IMPEDANCE

.....75 ohms unbalanced

.....300 ohms balanced

<QRX-9001>

TUNING RANGE

.....88 to 108MHz

USABLE SENSITIVITY (IHF)....

.....10.3dBf (1.8μV)

(DIN) ..1.0μV

(1kHz, Modulation 30%, S/N 26dB)

50dB QUIETING SENSITIVITY

STEREO (IHF)	38dBf (45μV)
MONO (IHF).....	15.6dBf (3.3μV)

TOTAL HARMONIC DISTORTION

STEREO	less than 0.4% (1kHz)
MONO	less than 0.3% (1kHz)

SIGNAL TO NOISE RATIO

STEREO	better than 65dB
MONO	better than 70dB

ALTERNATE CHANNEL SELECTIVITY

.....better than 80dB (+400kHz)

CAPTURE RATIO

.....less than 1.5dB

AM SUPPRESSION

.....better than 50dB

IMAGE RESPONSE RATIO (IHF)

.....better than 75dB (98MHz)

IF RESPONSE RATIO (IHF)better than 95dB (98MHz)

AM SECTION**<QRX-8001, QRX9001>**

TUNING RANGE

.....535 to 1,605kHz

SENSITIVITY (Bar antenna)....

.....50dB/m (1,000kHz)

SELECTIVITY

.....better than 35dB (1,000kHz)

IMAGE RESPONSE RATIO(IHF) better than 35dB (1,000kHz)

IM RESPONSE RATIO (IHF)....better than 30dB (1,000kHz)

OTHERS**<QRX-8001>****POWER REQUIREMENTS**

POWER VOLTAGE

.....100, 120, 220, 240V 50/60Hz

.....120V (Usable 110—130V)

.....60Hz (for U.S.A. & Canada only)

POWER CONSUMPTION**MAXIMUM CONSUMPTION**

.....550 watts

RATE CONSUMPTION ..370 watts (430 VA)

DIMENSIONS.....

.....600mm (23½") W

.....174mm (6⅞") H

.....415mm (16⅞") D

WEIGHT

.....23.6kg (52.0 lbs) net

.....26.4kg (58.2 lbs) packed

<QRX-9001>**POWER REQUIREMENTS**

POWER VOLTAGE

.....100, 120, 220, 240V 50/60Hz

.....120V (Usable 110—130V)

.....60Hz (for U.S.A. & Canada only)

POWER CONSUMPTION**MAXIMUM CONSUMPTION**

.....860 watts

RATE CONSUMPTION ..580 watts (675 VA)

DIMENSIONS.....

.....600mm (23½") W

.....174mm (6⅞") H

.....415mm (16⅞") D

WEIGHT

.....23.0kg (50.7 lbs) net

.....25.8kg (56.9 lbs) packed

* QS is a trademark of Sansui.

** SQ is a trademark of CBS, Inc.

*** CD-4 is a trademark of JVC, Inc.

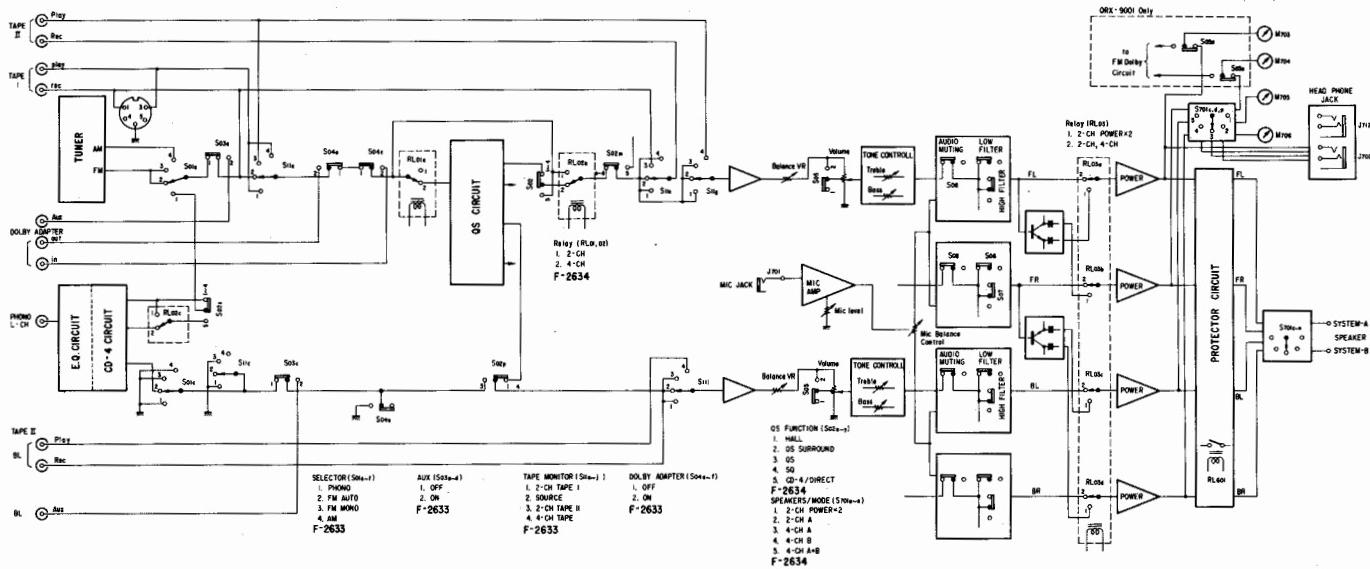
† The word "Dolby" and the Doable-D symbol are a trademark of Dolby Laboratories Inc.

◊ Nois reduction circuit made under license from Dolby Laboratories Inc.

2. BLOCK DIAGRAM

2-1. QRX-8001

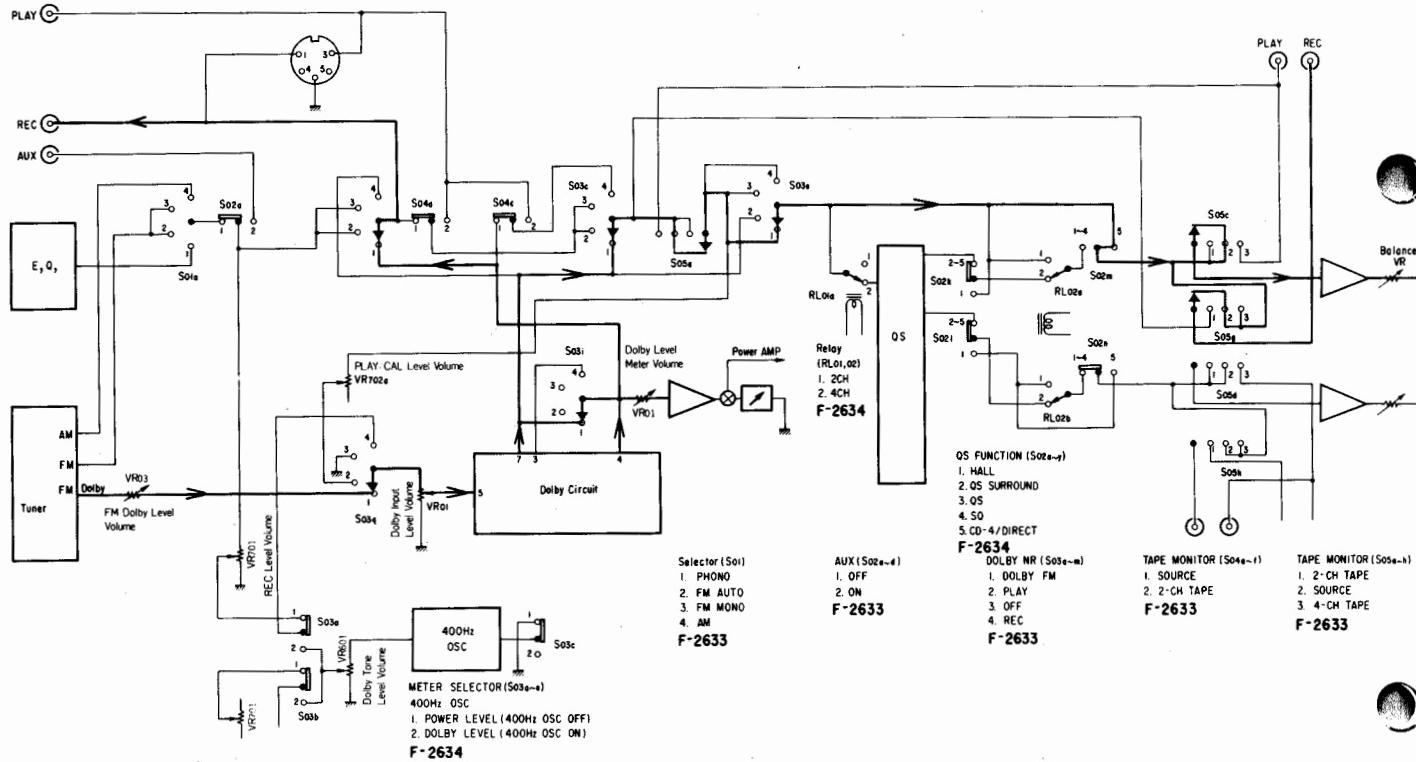
Note: This Block Diagram indicates only L-CH before Audio Muting.



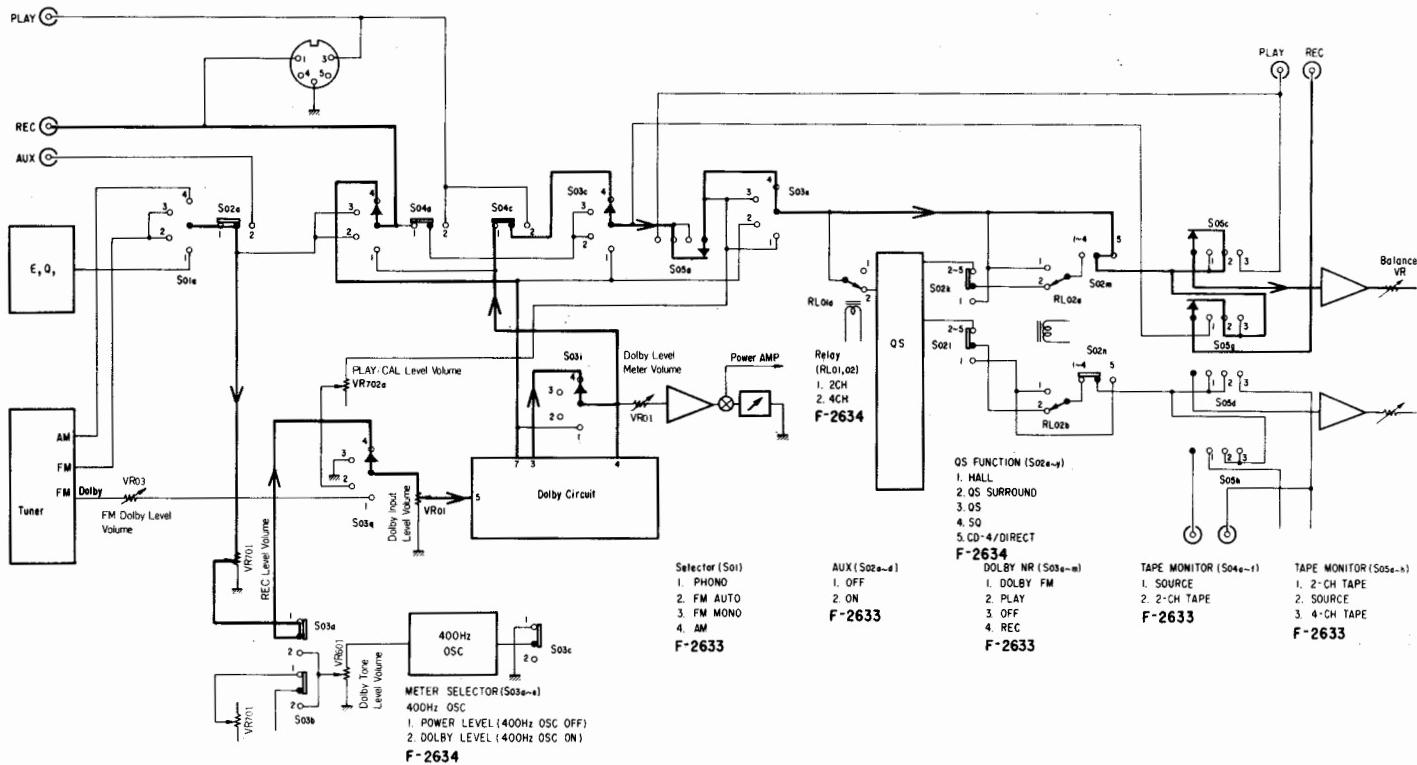
2-2. QRX-9001

Note: Follow Block Diagram QRX-8001 above after the Balance Volume.

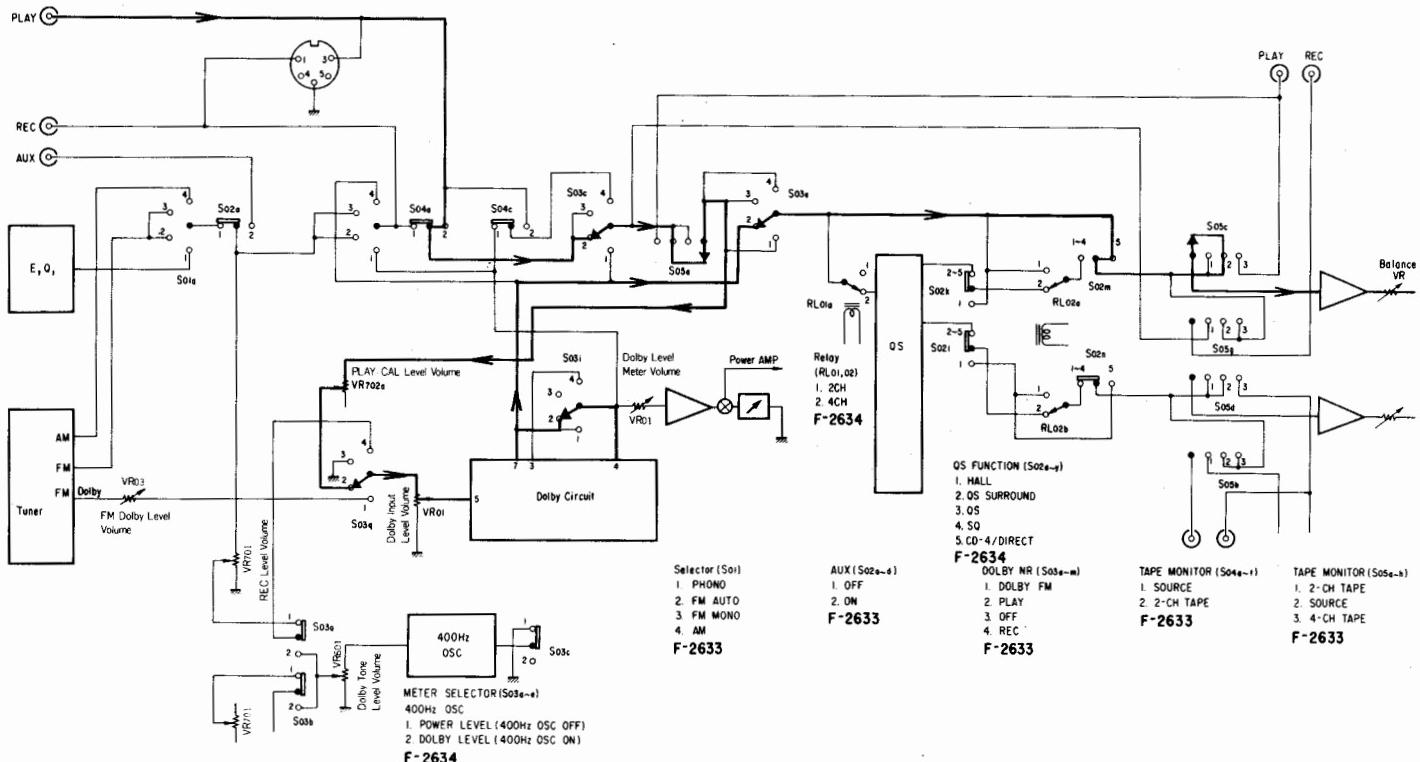
(a) Dolby Operation (FM Dolby Mode)



[b] Dolby Operation (Rec Mode)



[c] Dolby Operation (Play Mode)



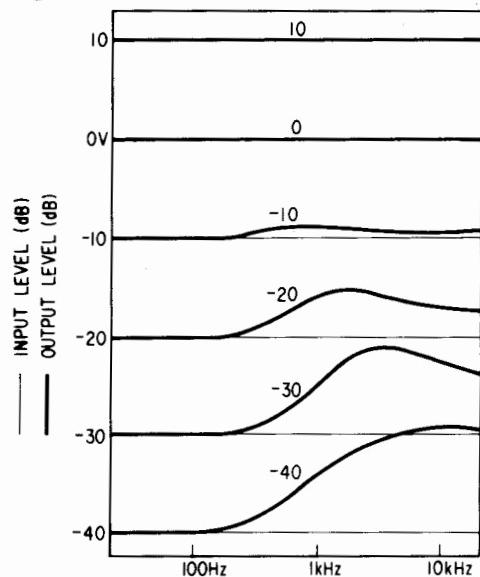
3. OPERATION OF FM DOLBY SYSTEM

This Dolby Noise Reduction System Type B used in this unit is not only available for encoding of the FM dolbyized signal but also useful for encoding and decoding of other signals. Therefore it is possible and effective to combine with other products such as a cassette deck without Dolby system.

FM Dolby System

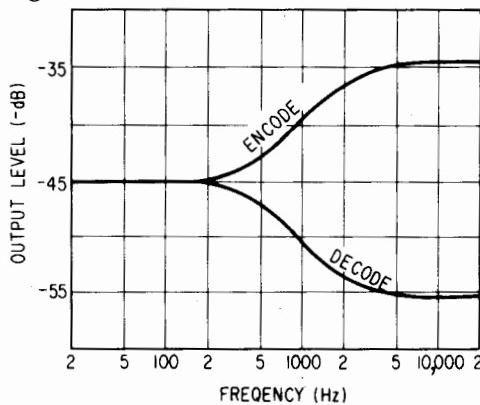
FM broadcasting system is originally able to produce a very high quality audio performance; however, FM stereophonic broadcasting system incures a 20dB Signal-Noise ratio decrease. When Dolby B Type Noise Reduction system is used for a FM stereo, Signal-Noise ratio (S/N) is conspicuously improved and this ratio is at about 10dB.

Fig. 3-1



Whole range output Frequency Response characteristics against input level.

Fig. 3-2



Low level Frequency Response characteristics of encode and decode processors.

Principles

The S/N of the FM becomes worse when the frequency is high and the level is low. Because of this reason, the middle and high range of the low level signal is expanded by a FM station. Then the signal will be compressed proportionally along the expanded level by a receiving side. (See Fig. 1, 2)

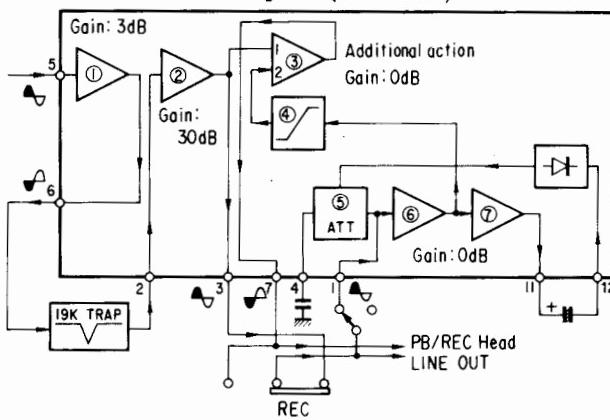
This unit employs a IC NE545B for a main Dolby circuit. The Operating diagram is shown in the Fig. 3.

Complementary items

1. When FM Dolby system is being used, the de-emphasis of FM-out is $25\mu s$.
2. The input level of FM Dolby is at 50% modulation and $\pm 37.5\text{kHz}$.
3. This unit has a own 400Hz Oscillator for Dolby Tone in order to adjust itself to the Dolby level.

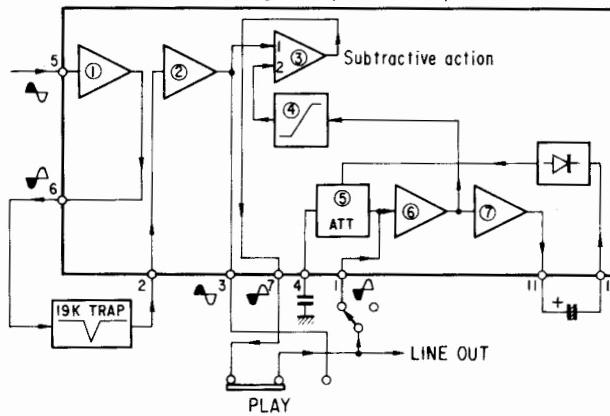
Fig. 3-3

Dolby IC (NE545B)



PLAY

Dolby IC (NE545B)



4. ADJUSTMENTS

Abbreviations

Equipment

AM FM Generator	Oscilloscope	Genescope
AM Standard Signal Generator		AM SSG
FM Standard Signal Generator		FM SSG
FM Stereo Generator		Stereo SG
Oscilloscope		Scope
Audio Oscillator		Audio Osc.
Distortion Meter		Dist. Meter

Others

Clockwise	CW.
Counterclockwise	CCW.
Antenna	ANT.
Modulation	MOD.

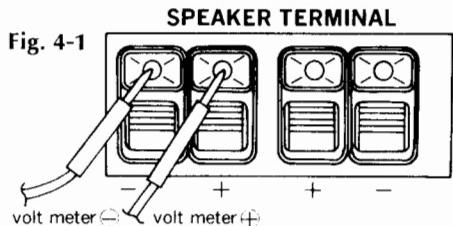
4-1. Audio Section

4-1-1. Driver Circuit Board Adjustment (See Figs. 4-1 & 4-2)

Note: 1. Master Volume Minimum
 2. Speaker Selector SYSTEM (A)

3. Before adjustment, run the unit for more than 4 minutes, then check and readjust, if necessary.

STEP	SUBJECT	EQUIPMENT	MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
1	DC 0V Front L-CH	DC volt meter	Speaker terminal Front L-CH	F-2624 VR01	0V ± 10mV	Step down meter's range accordingly Change lead's polarity if meter swings backward
2	DC 0V Front R-CH	DC volt meter	Speaker terminal Front R-CH	F-2624 VR02	0V ± 10mV	Same as above
3	DC 0V Back L-CH	DC volt meter	Speaker terminal Back L-CH	F-2624 VR01	0V ± 10mV	Same as above
4	DC 0V Back R-CH	DC volt meter	Speaker terminal Back R-CH	F-2624 VR02	0V ± 10mV	Same as above
5	Bias current Front L-CH	DC milliammeter	F-2638 F06	F-2624 VR03	30 ± 3mA	Same as above
6	Bias current Front R-CH	DC milliammeter	F-2638 F07	F-2624 VR04	30 ± 3mA	Same as above
7	Bias current Back L-CH	DC milliammeter	F-2638 F08	F-2624 VR03	30 ± 3mA	Same as above
8	Bias current Back R-CH	DC milliammeter	F-2638 F09	F-2624 VR03	30 ± 3mA	Same as above



Rear Side (Bottom View)

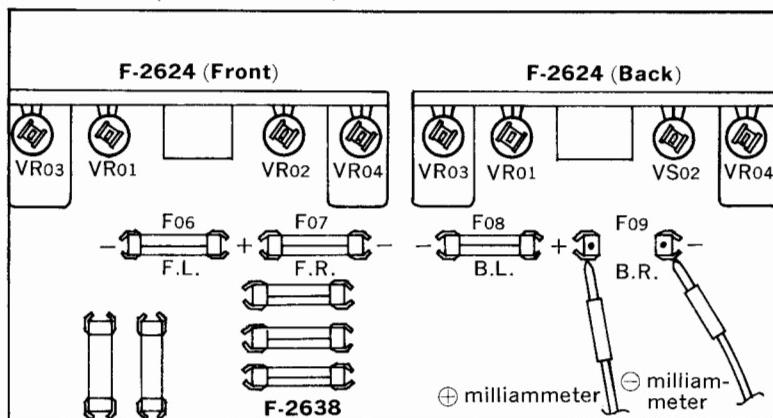


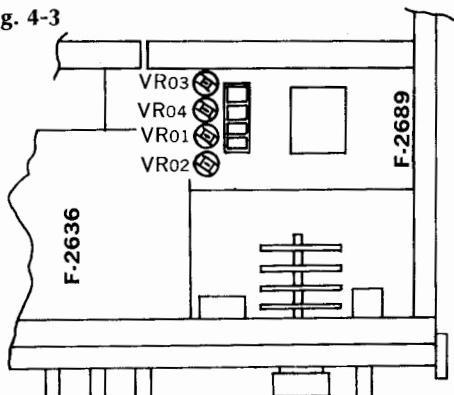
Fig. 4-2

4-1-2. Power Meter Adjustment (See Fig. 4-3)

- Note:
1. InputAUX
 2. Input SignalSine Wave (1kHz)
 3. Speaker load.....8Ω
 4. Master VolumeMaximum
 5. CD/4-CH DIRECT SwitchON
 6. Dolby NR SwitchOFF
 7. Speakers Switch4-CH A
 8. For adjustment, run the unit for more than 4 minutes after the power is switched ON.

STEP	EQUIPMENT	MEASURE OUTPUT	OUTPUT LEVEL	ADJUST	ADJUST FOR
Front L-CH	AC Volt Meter	Speaker Terminal Front L-CH	20V (50W)	VR01 F-2689	Meter Position 50W
Front R-CH	Same as above	Speaker Terminal Front R-CH	Same as above	VR02 F-2689	
Back L-CH	Same as above	Speaker Terminal Back L-CH	Same as above	VR03 F-2689	
Back R-CH	Same as above	Speaker Terminal Back R-CH	Same as above	VR04 F-2689	

Fig. 4-3

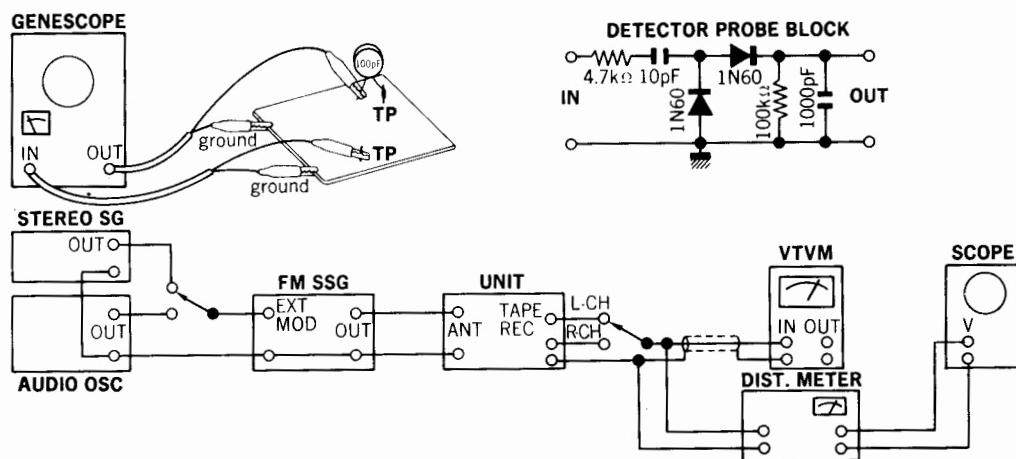


Front Side (Bottom View)

4-2. Tuner Section

4-2-1. FM & MPX Adjustment & Alignment

- Note:
1. Selector.....FM AUTO
 2. FM Muting Switch.....OFF
 3. Connection.....Connect the output of genescope to TP through 100pF ceramic capacitor.

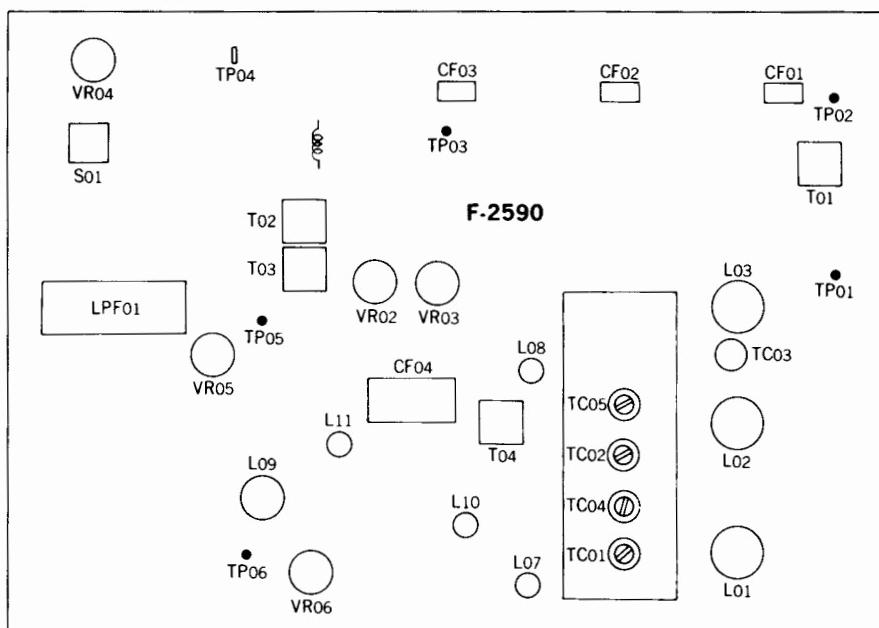


〈QRX-8001〉 A) FM IF Adjustment & Tracking (See Fig. 4-4)

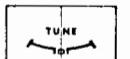
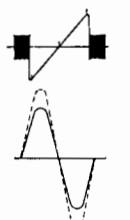
STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1.	IF Coil	Output 60dB Genescope	TP01 F-2590	TP03 F-2590 Use Detector Probe	T01 F-2590	Max. IF waveform	
2.	Discriminator Coil	Output 50dB Genescope	Same as above	TP04 F-2590	T02 F-2590	Center indication on tune meter	
					T03 F-2590	Max. linearity of S curve Steep linearity of S curve Set output wave to dip point (It's minimum distortion)	
3.	90MHz Dial Calibration	90MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	ANT terminal 300Ω	REC OUT L or R-CH VTVM & Scope	L03 F-2590	Max. Output	
	106MHz Dial Calibration	106MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	TC03 F-2590	Same as above	
4.	90MHz RF Adj.	90MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	L01, L02 F-2590	Same as above	
	106MHz RF Adj.	106MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	TC01 TC02 F-2590	Same as above	
5.	Signal Meter Volume	98MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Signal Meter	VR02 F-2590	4.3 on Meter	

◆ Adjusting or Connecting Points on AM, FM & FM MPX circuit board F-2590

Fig. 4-4

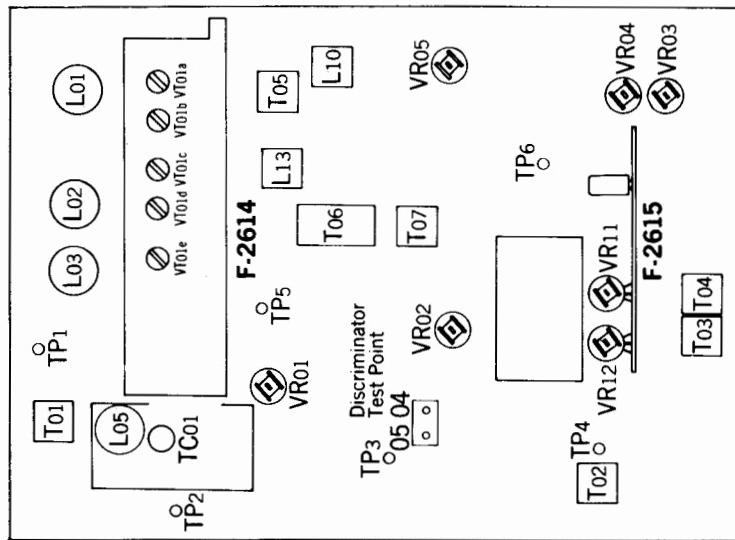


〈QRX-9001〉 B) FM IF Adjustment & Tracking (See Fig. 4-5)

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1.	IF Coil	Output 60dB Genescope	TP01 F-2614	TP03 F-2614 Use Detector Probe	T01 F-2614	Max. IF waveform	
		Output 50dB Genescope	Same as above	TP04 F-2614 Use Detector Probe	T02 F-2614		
2.	Discriminator Coil	Output 50dB Genescope	Same as above	TM04 F-2614	T03 T04 F-2614	Center indication on tune meter Max. linearity of S curve Steep linearity of S curve Set output wave to dip point (It's minimum distortion)	 
3.	90MHz Dial Calibration	90MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	ANT terminal 300Ω	REC OUT L or R-CH VTVM & Scope	L05 F-2614	Max. Output	
	106MHz Dial Calibration	106MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	TC01 F-2614	Same as above	
4.	90MHz RF Adj.	90MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	L01, L02, L03 F-2614	Same as above	
	106MHz RF Adj.	106MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	VT01a VT01c VT01e F-2614	Same as above	
5.	Signal Meter Volume	98MHz ANT Input 100dB 400Hz (100% MOD) FM SSG	Same as above	Signal Meter	VR11 F-2615	4.7 on Meter	

◆ Adjusting or Connecting Points on AM, FM & FM MPX circuit board F-2614

Fig. 4-5



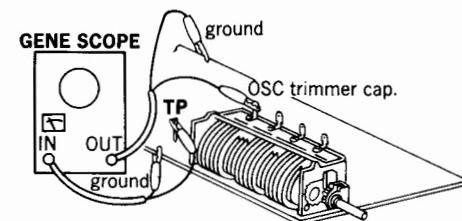
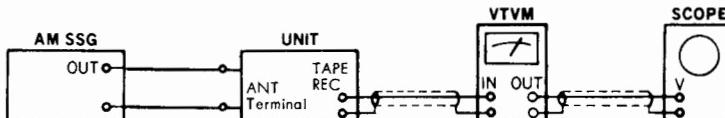
4-2-2. MPX Adjustment (See Fig. 4-4 & 4-5)

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1.	PLL VCO Adj.	98MHz ANT Input 60dB FM SSG Pilot 19kHz (10% MOD) L-CH 1kHz (45% MOD) R-CH (0% MOD) STEREO SG	ANT terminal 300Ω	Stereo indicator	(A)VR05 F-2590 (B)VR01 F-2614	Light indicator	Adjust the VR within center of lighting level.
	PLL VCO Adj. In case of using Freq. counter.		Make short between TP04 & chassis	TP05 (A)F-2590 (B)F-2614 Use Freq. counter	VR05 (A)F-2590 (B)F-2614	76kHz ±200Hz	For this adjustment, run the unit over 30 seconds.
2.	Separation	98MHz ANT Input 60dB FM SSG Pilot 19kHz (10% MOD) L-CH (0% MOD) R-CH 1kHz (45% MOD) STEREO SG	ANT terminal 300Ω	REC OUT L-CH VTVM & Scope	(A)VR04 F-2590 (B)VR02 F-2614	Min. Output -35dB	Confirm separation L-CH → R-CH -35dB
3.	Muting level & indicator level	98MHz ANT Input (A)18dB (B)23dB FM SSG Pilot 19kHz (10% MOD) L-CH 1kHz (45% MOD) R-CH (0% MOD) STEREO SG	Same as above	Stereo indicator	(A)VR03 F-2590 (B)VR12 F-2614	Muting level (A)18dB (B)23dB Indicator lighting level (A)18dB (B)23dB	

* In the procedure above, (A) is indicating QRX-8001 and (B) is QRX-9001.

4-2-3. AM IF Adjustment & Tracking (See Fig. 4-4 & 4-5)

Note: 1. Selector AM
2. Confirm start point of dial pointer before alignment.



STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1.	IF Coil	Genescope Output 65dB	(A)TC04 F-2590 (B)VT01b F-2614	TP06 (A)F-2590 (B)F-2614	(A)CF04 F-2590 (B)T06 F-2614	Max. IF waveform	
2.	600kHz Dial Calibration	600kHz ANT Input 60dB 400Hz (MOD 30%) AM SSG	AM ANT terminal	REC OUT L or R-CH VTVM & Scope	(A)T04 F-2590 (B)L13 F-2614	Max. Output	
	1400kHz Dial Calibration	1400kHz ANT Input 60dB 400Hz (MOD 30%) AM SSG	Same as above	Same as above	TC05 (A)F-2590 (B)F-2614	Same as above	

to be continued

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
3.	600kHz RF Adj.	600kHz ANT Input 60dB 400Hz (MOD 30%) AM SSG	AM ANT Terminal	REC OUT L or R-CH VTVM & scope	L702 Bar Antenna	Same as above	
	1400kHz RF Adj.	1400kHz ANT Input 60dB 400Hz (MOD 30%) AM SSG	Same as above	Same as above	(A)TC04 F-2590 (B)VT01b F-2614	Same as above	
4.	Signal Meter volume	1000kHz ANT Input 76dB 400Hz (MOD 30%) AM SSG	Same as above	Signal Meter	(A)VR06 F-2590 (B)VR05 F-2614	(A)4.3 on meter (B)4 on meter	

* In the procedure above, (A) is indicating QRX-8001 and (B) is QRX-9001.

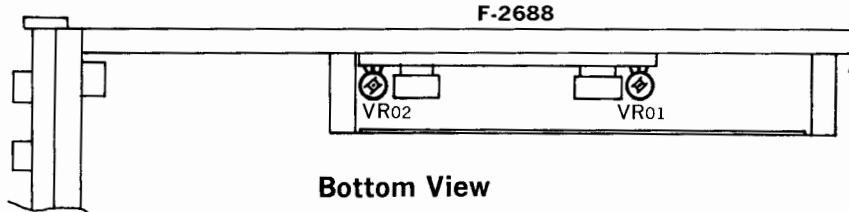
4-3. Dolby Circuit Adjustment (QRX-9001 Only) (See Fig. 4-6)

4-3-1. Input Level Adjustment of Dolby IC (NE545B)

Note: 1. Speaker Selector 2-CH A
 2. Master Volume Minimam
 3. Balance Volume Center
 4. Accessory Switch OFF
 5. REC Level Volume MAX
 6. Dolby Selector Switch REC

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR
		FROM	TO			
1.	L-CH	400Hz 85mV Audio OSC.	AUX Terminal	REC Terminal TAPE 1 VTVM	VR01 F-2688	Output 270mV
2.	R-CH	Same as above	AUX Terminal	REC Terminal TAPE 1 VTVM	VR02 F-2688	Same as above

Fig. 4-6



Bottom View

4-3-2. Calibration Tone Volume & Dolby Meter Volume Adjustment

Note: 1. Speaker Selector 2-CH A
 2. Master Volume Minimam
 3. Balance Volume Center
 4. Accessory Switch OFF
 5. Dolby Selector Switch REC

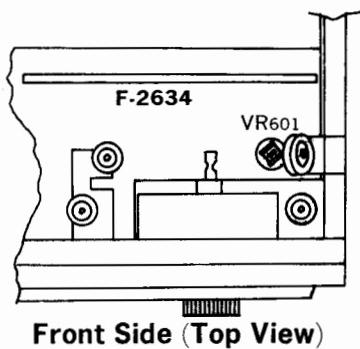
(1) Calibration Tone Volume Adjustment (See Fig. 4-7 on Page 12)

1. Turn on the Dolby REC CAL. TONE switch.
2. Connect VTVM to the front TAPE 1 REC terminal.
3. Adjust VR601 on the circuit board, F-2634 to obtain 270mV on indication of VTVM.

(2) Dolby Meter Volume Adjustment (See Fig. 4-8, 4-9)

Adjust VR01 (L-CH) and VR02 (R-CH) on the circuit board, F-2633 so that indicator of power meter will be center of Dolby mark.

Fig. 4-7



Front Side (Top View)

Fig. 4-9

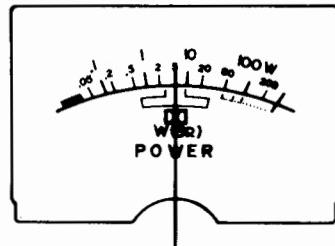
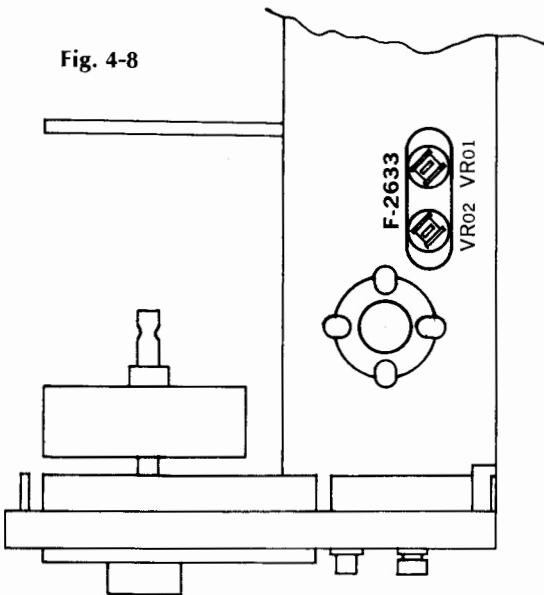


Fig. 4-8



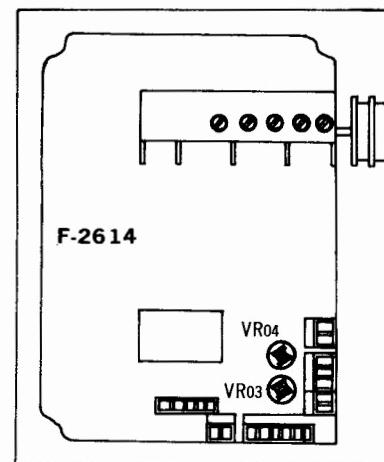
Side View

4-3-3. FM Dolby Volume Adjustment (See Fig. 4-10)

- Note: 1. Selector FM
 2. Dolby Selector Dolby FM
 3. REC CAL. TONE Switch OFF
 4. Master Volume Min.

SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR
	FROM	TO			
L-CH	98MHz ANT Input 60dB FM SSG Pilot 19kHz (10% MOD) L-CH 1kHz (25% MOD) R-CH (0% MOD)	FM ANT Terminal 300Ω	REC Terminal TAPE 1 L-CH VTVM	VR03 F-2614	Output Level 270mV
R-CH	98MHz ANT Input 60dB FM SSG Pilot 19kHz (10% MOD) R-CH 1kHz (25% MOD) L-CH (0% MOD)	Same as above	REC Terminal TAPE 1 R-CH VTVM	VR04 F-2614	Same as above

Fig. 4-10

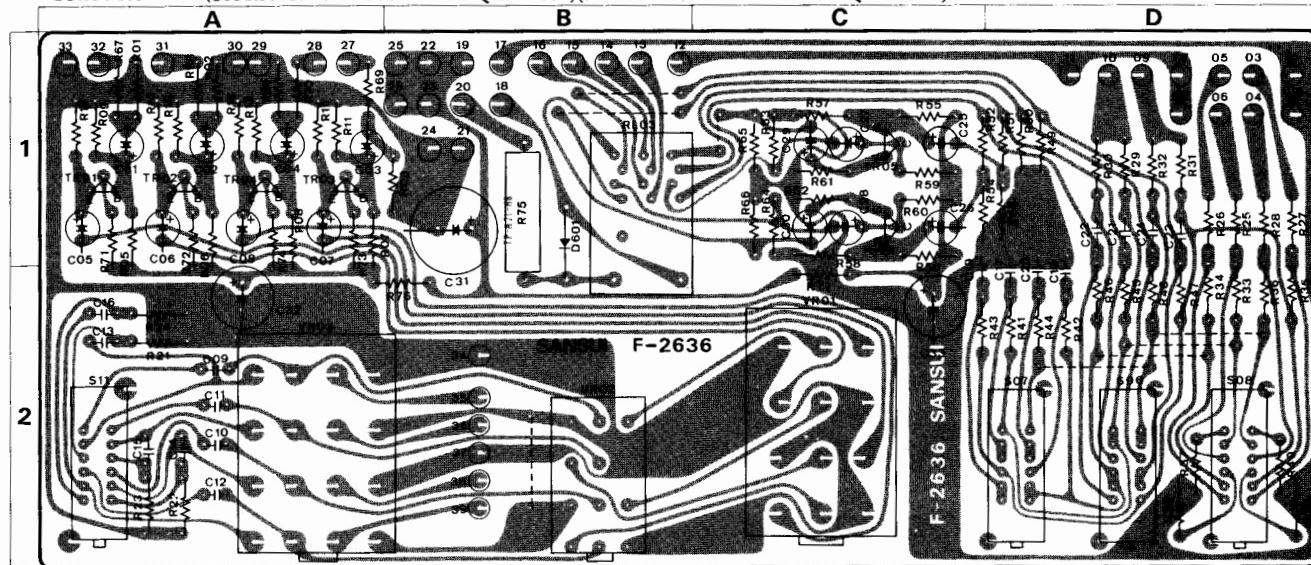


Front Side (Top View)

5. PARTS LOCATION & PARTS LISTS

5-1. F-2636 Volume & Filter Circuit Board

Conductor Side (Stock No. 7594311 MODEL QRX-9001) (Stock No. 7564381 MODEL QRX-8001)

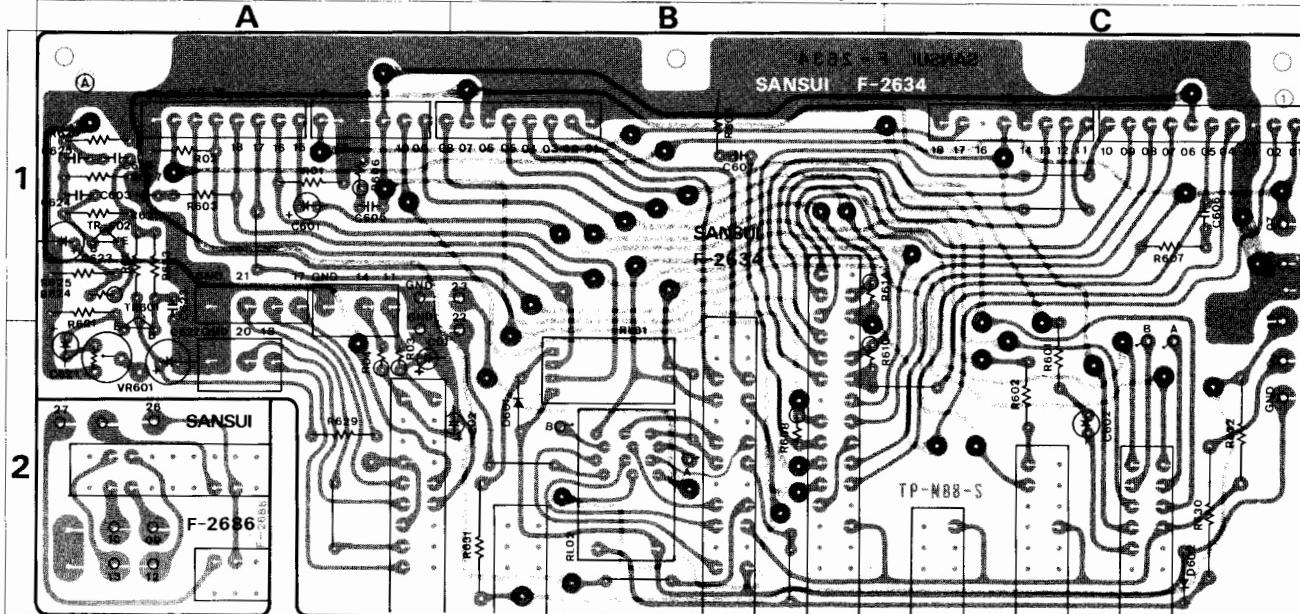


Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR01-04	0306070	2SC1313 (F, G)	1 A	VR01	1060380, I	250kΩ × 4 (M, N)	2 C	S03-04	1170880	SLS14251 A	Lever Switch
TR05, 06	0306070, I	2SC1313 (F, G)	1 C	VR02	1065030, I	250kΩ × 4 (M, N)	2 B	S05	1170880	MODEL QRX-9001 Only	
D601	0310340	10D1 Diode	1, 2 B	VR03	1060450, I	250kΩ × 4 (B)	2 A	S06, 07	1170880	S06, 07	Lever Switch
C9-12	0620161	160pF 50V P.C.		S01	1170880	SLS14251 A		S08	1170870	S08	2 D
R75	0182561	560Ω 2W Ce.R.	1, 2 B	S02	1170870	SLS14201 A					2 D
RL01	1150380	MH4P-0 Relay									

5-2. F-2634 4-ch Function Switch & REC CAL Tone Circuit Board

Conductor Side (Stock No. 7650501 MODEL QRX-9001) (Stock No. 7650551 MODEL QRX-8001)



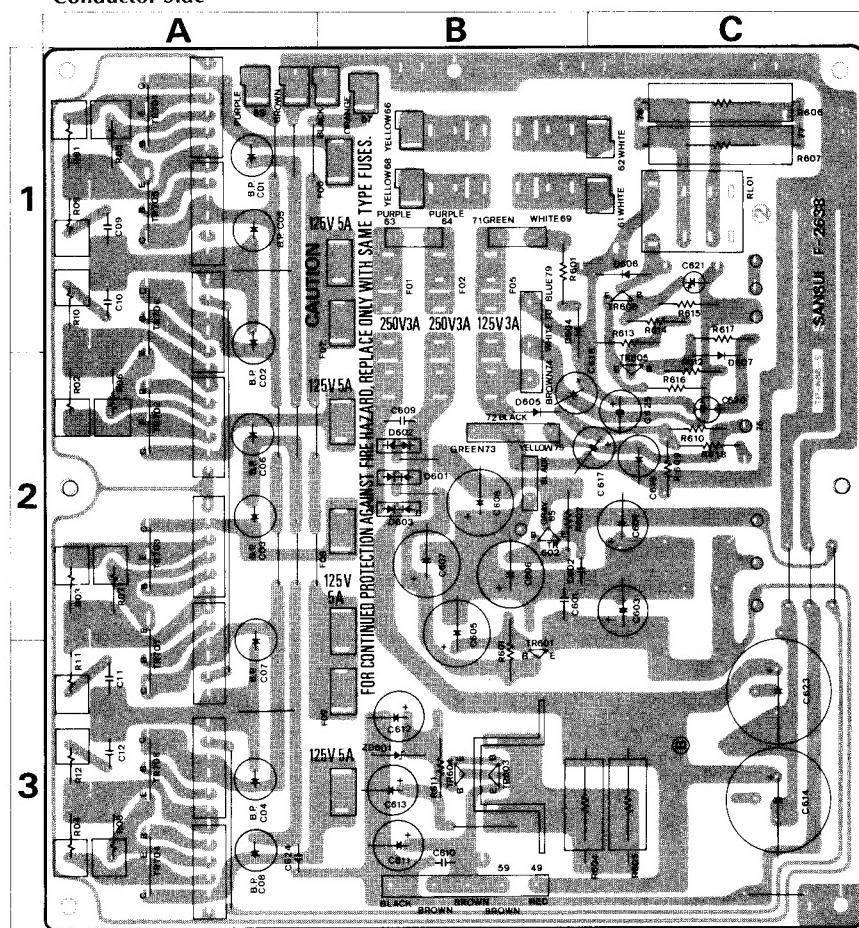
Parts List

Part No.	Stock No.	Description	Position	Part No.	Stock No.	Description	Position	Part No.	Stock No.	Description	Position
D601	0310340	10D-1 Diode	2 B	S02	1131350	Push Switch, AUDIO MUTING		MODEL QRX-9001 Only			
ZD901	0315970	EQ801-13R Zener Diode		2410590	4P Pin Ass'y (Type D)			TR601	0306131, 2	2SC1364 (6, 7)	Transistor
R630	0182821	820Ω 2W Ce.R.	2 C	2410730	6P Pin Ass'y (Type A)			TR602	0306131, 2	2SC1364 (6, 7)	1 A
RL01	1150320	HA-224N Relay	2 B	2410740	8P Pin Ass'y (Type A)			D602	0310340	10D-1 Diode	2 C
RL02	1150380	MH4P-0 Relay	2 B	2410750	10P Pin Ass'y (Type A)			VR601	1035190	100kΩ(8)	2 A
				S09	1131340	Push Switch		S03	1131340	Push Switch, LOW FILTER	
								S04	2410920	3P Pin Ass'y (Type E)	

Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the common parts list for capacitors & resistors which was appended previously to each Sansui Manual.

5-3. F-2638 Power Supply Circuit Board (Stock No. 7502031 MODEL QRX-9001) (Stock No. 7502051 MODEL QRX-8001)

Conductor Side



Parts List

Parts No.	Stock No.	Description	Position
TR601	{ 0308451 or 0308452	2SD356 (D) 2SD356 (E)	3 B
TR602	{ 0308360 or 0308361	2SB560 (D) 2SB560 (E)	2 B
TR603	0308391.2	2SD313 (C, E)	3 B
TR604	0305930.1	2SC1211 (C, D)	3 B
D601	0310680	10DC-1 (Black)	2 B
D602	0310670	10DC-1R (RED)	2 B
D603	0310680	10DC-1 (Black)	2 B
D604	0310340	10D-1 (IS2226)	Diode 1, 2 B
ZD601	{ 0315970 or 0316310	EQ4A01-13R RD-13E (B)	3 B
C601	0655103	1000pF	2 B
C602	0655103	1000pF	2 B
C609	0655103	1000pF	2 B
C614	0549207	1000pF	3 C
C623	0549207	1000pF	3 C
R01-04	0153338	0.33Ω	1, 2, 3 A
R05-08	0153338	0.33Ω	1, 2, 3 A
R09-12	0156479	4.7Ω	20 W
R604	0183471	47Ω	3 B, C
R605	0183471	47Ω	3 C
F01-02	0432260	3A, 250V	1 B
F03-04	0434060	10A, 250V	AC Fuse
F05	0432260	3A, 250V	1 B
F06-09	0432290	5A, 125V	1 B, 3 B
	2310220	Fuse Holder (large)	
	2310230	Fuse Holder (Small)	
	5936990	Heat Sink	
	2410730	6P Pin Ass'y Type A	

MODEL QRX-8001 Only

R608	0192479	4.7Ω 1/2W F.R.
F03-04	0434060	10A, 250V AC Fuse

MODEL QRX-9001 Only

TR605	0306131.2	2SC1364 (6, 7)	Transistor 2 C
TR606	0306131.2	2SC1364 (6, 7)	1 C
D605	0310340	10D-1	2 B
D606	0310340	10D-1	Diode 1 C
D607	0310340	10D-1	2 C
R606, 607	0137399	3.9Ω 7 W Ce.R.	1 C
R608	0192479	4.7Ω 1/2W F.R.	
RL601	1150360	Relay	

NOTE: A part of the words printed on the circuit board, F-2638, is different from the Fig above and the schematic diagram because of productive term difference. In case of above, please refer to the Fig above and the schematic diagram.
(Different point)

The words TR702, TR704, TR706 and TR708 are misprinted as follows.
TR702→TR708 TR704→TR706 TR706→TR704 TR708→TR702

(Applicable model)

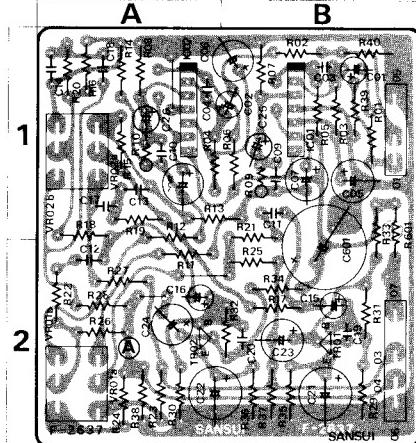
The left-most digit of serial NO. 23609, 23610 and 23611.

5-4. F-2637 Tone Control Circuit Board

(Stock No. 7561561 MODEL QRX-9001)

(Stock No. 7561571 MODEL QRX-8001)

Conductor Side



Parts List

Parts No.	Stock No.	Description	Position
TR01, 02	0306070, 1	2SC1313 (F, G) Transistor	2 B, 2 A
IC01, 02	0360190	BA312 I.C.	1 B, 1 A
VR01	1015200, 1	100kΩ (B)	2 A
VR02	1015200, 1	100kΩ (B)	1 A
2410670	3P Pin Ass'y (Type F)		
2410680	4P Pin Ass'y (Type F)		

Parts List

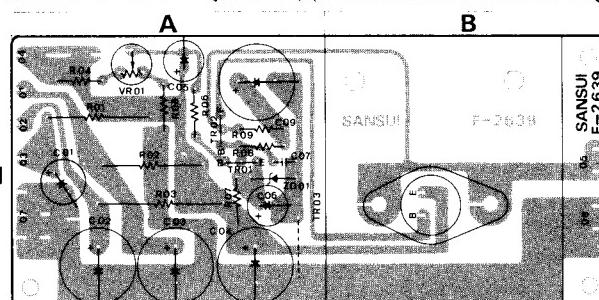
Parts No.	Stock No.	Description	Position
TR01	0306070, 1	2SC1313 (F, G)	1 A
TR02	0305930, 1	2SC1211 (C, D)	1 A
TR03	{ 0306100, 1 or 0308551, 2	2SC1444 (R, O) 2SD315V10(D, E)	Transistor 1 A
ZD01	{ 0315760 or 0316390	EQ4A01-06R RD-6.2E	Zener Diode 1 A

MODEL QRX-8001 Only

R01	0182331	180Ω { 3 W Ce.R.	1 A
R03	0133181	180Ω { 1 A	

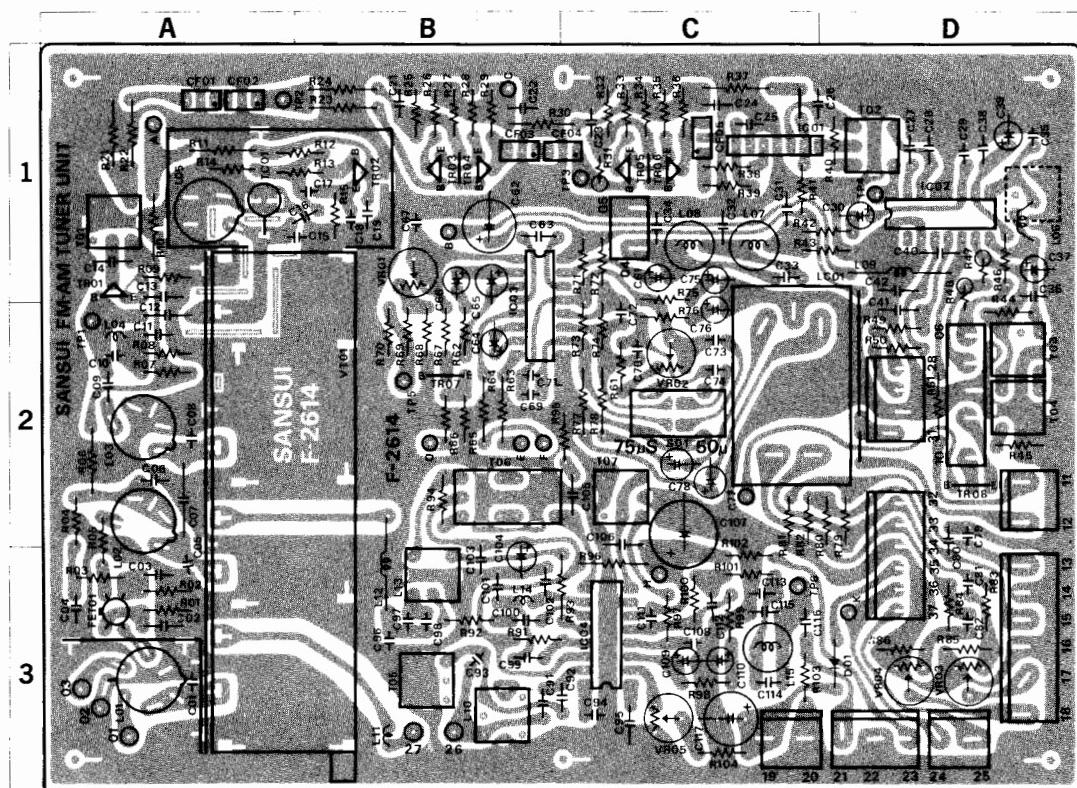
VR01 1035350 4.7kΩ (B) Semi-Variable Resistor 1 A

5937420 Heat Sink



5-6. F-2614 Tuner Circuit Board (Stock No. 7521361 MODEL QRX-9001 Only)

Conductor Side



Parts List

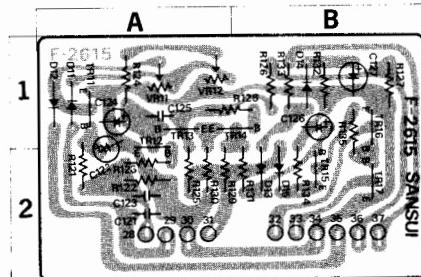
Parts No.	Stock No.	Description	Position
TR01	0305801, 2	2SC1047 (B, C)	1 A
TR02	0305801, 2	2SC1047 (B, C)	1 B
	0306341	2SC1674 (L)	
TR03	{ or	or	1 B
	0306342	2SC1674 (K)	
	0306341	2SC1674 (L)	
TR04	{ or	or	1 B
	0306342	2SC1674 (K)	
	0306341	2SC1674 (L)	
TR05	{ or	or	Transistor 1 C
	0306342	2SC1674 (K)	
	0306341	2SC1674 (L)	
TR06	{ or	or	1 C
	0306342	2CS1674 (K)	
	0305731, 2	2SC711 (E, F)	
TR07	{ or	or	2 B
	0305951, 2	2SC945 (Q, P)	
IC01	0360120	/PC555H	1 C
IC02	0360350	HA1137	1 D
IC03	0360320	HA1196	I.C. 1, 2 B
IC04	0360390	HA1197	3 C
FT01	0370121, 2	3SK41 (L, M) FET	3 A
	0311160	152473D	
D02	{ or	or	
	0311180	1S1588	
	0311160	152473D	
D903	{ or	or	
	0311180	1S1588	
C01	0669325	15pf	3 A
C05	0669325	15pf	3 A
C08	0669325	15pf	2 A
C09	0661100	10pf	
C12	0679008	1.0pf 500V Gimmick	2 A
		Capacitor	
C15	0669330	20pf	1 A, B
C16	0669295	10pf	1 A, B
C17	0669295	10pf	1 B
C18	0669295	10pf	1 B
C29	0661330	33pf	
C35	0669204	3.3pf	1 D
C67	0629005	360pf	1 B
C73	0620561	560pf	50V P.C. 2 C
C74	0620561	560pf	2 C
C96	0669400	15pf	50V C.C. 3 B
C97	0669400	15pf	3 B
C98	0620361	360pf	50V P.C. 3 B
R63	0210471	470Ω ½W N.I.R.	2 B
L01	4200720	3-307393 Antenna Coil	3 A

Parts No.	Stock No.	Description	Position
L02	4210340	3-307395 RF Coil	2 A
L03	4210340	3-307395 RF Coil	2 A
L04	4900140	L-140 1/ μ H Inductor	2 A
L05	4220400	3-304672 Osc Coil	1 A
L06	4290300	18mH Inductor	1 D
L07	4900250	8.2/ μ H Inductor	1 C
L08	4900240	6.8/ μ H Inductor	1 C
L09	4290011	Peaking Coil	1 D
L11	4900100	L-0105 3.3/ μ H Inductor	3 B
L12	4290011	Peaking Coil	2, 3 B
L13	4220650	138/ μ H Osc Coil	3 B
L14	4900110	100/ μ H } Inductor	3 B
L601	4900100	3.3/ μ H }	
T01	4235930	10.7MHz IF Coil	1 A
T02	4235930	10.7MHz IC Coil	1 D
	4235990	10.7MHz FM IFT	
T03	or	or	2 D
	4235991	10.7MHz FM IF Coil	
	4236000	10.7MHz FM IF Coil	
T04	or	or	2 D
	4236001	10.7MHz FM IF Coil	
T06	0910280	455kHz Ceramic Filter	2 B
T07	4230620	455kHz IF Coil	2 C
CF01	0910150	10.7MHz }	1 A
CF02	0910150	10.7MHz }	1 A
CF03	0910150	10.7MHz }	1 B
CF04	0910150	10.7MHz }	1 B, C
CF05	0910150	10.7MHz }	1 C
LC01	0910360	BL-12AK Low Pass Filter	2 C, D
VR01	1034250	4.7k Ω (B)	1 B
VR02	1035190	100k Ω (B)	2 C
VR03	1035130	10k Ω (B)	Semi-Variable Resistor 3 D
VR04	1035130	10k Ω (B)	3 D
VR05	1035110	4.7k Ω (B)	3 C
S01	1110270	Slide Switch	2 C
VT01	1220260	AM-FM Variable Capacitor	2, 3 A B
TC01	1230090	Trimmer Capacitor	1 A
	2260010	Test Pin	
	2260020	Test Pin	
	2410570	5P Pin Ass'y (Type F)	
	2410650	2P Pin Ass'y (Type F)	
	2410850	4P Pin Ass'y (Type B)	
	2410860	6P Pin Ass'y (Type B)	
	2410910	2P Pin Ass'y (Type E)	
	2410920	3P Pin Ass'y (Type E)	
	2410950	6P Pin Ass'y (Type E)	
	2510040	Front End Pack	

5-7. F-2615 Tuner Sub Circuit Board

(Stock No. 7521371 MODEL QRX-9001 Only)

Conductor Side

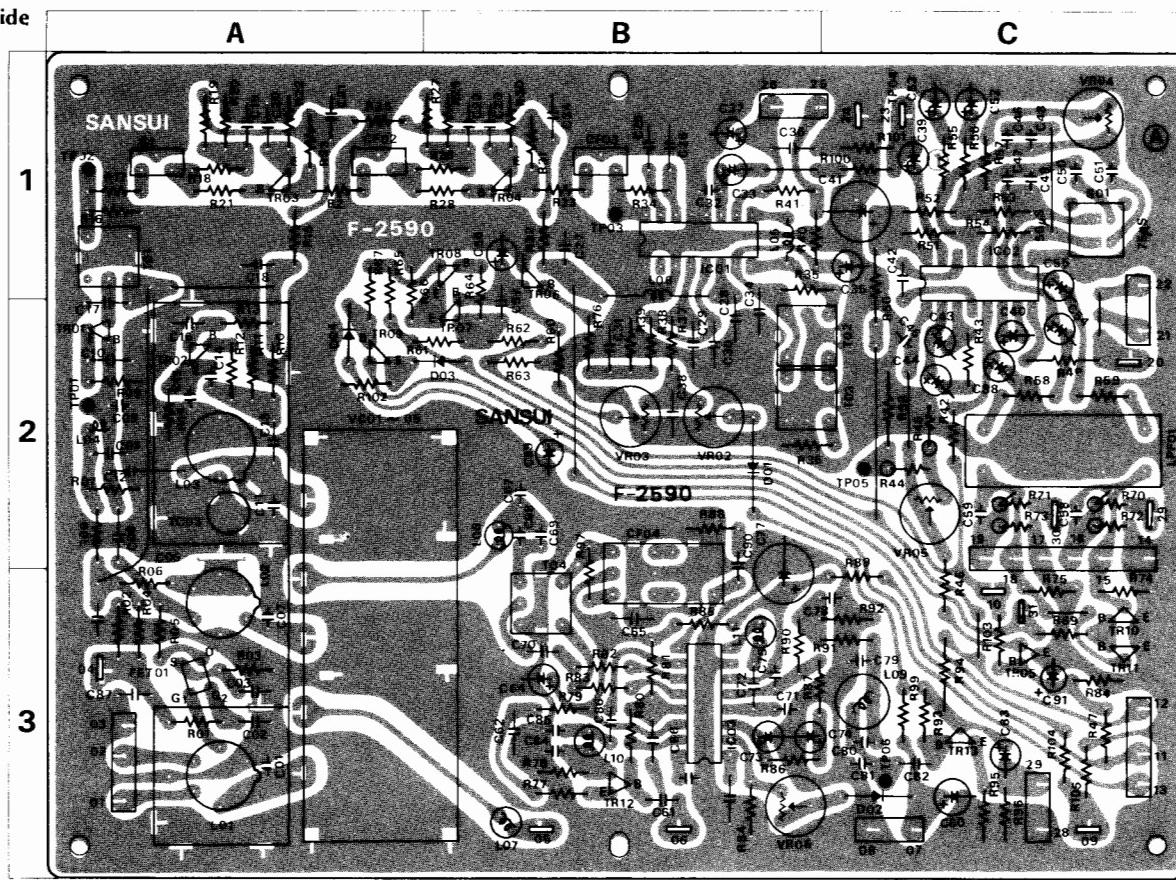


Parts List

Parts No.	Stock No.	Description	Position
TR11	{0306390, 1 0305370, 1}	2SC1636(1, 2) or 2SC733 (O, Y)	1 A
TR12	{0305731, 2 0305951, 2}	2SC711 (E, F) or 2SC945 (Q, P)	1, 2 A
TR13	{0305731, 2 0305951, 2}	2SC711 (E, F) or 2SC945 (Q, P)	Transistor 1 A
TR14	{0305731, 2 0305951, 2}	2SC711 (E, F) or 2SC945 (G, P)	1 A., B
TR15	0300510, 1	2SA733 (P, Q)	2 B
TR16, 17	{0306390 0305370, 1}	2SC1636 (1) 2SC733 (O, Y)	1 B., 2 B
D11	{0311160 0311180}	IS2473D or IS1588	1 A
D12	{0311160 0311180}	IS2473D or IS1588	1 A
D13	{0311160 0311180}	IS2473D or IS1588	2 B
D14	{0311160 0311180}	IS2473D or IS1588	1 B
D15	{0311160 0311180}	IS2473D or IS1588	2 B
D701	{0311160 0311180}	IS2473D or IS1588	
VR11	1035410	47k Ω (B)	Semi-Variable Resistor 1 A
VR12	1035430	100kΩ (B)	Resistor 1 A
	2420510	4P Connector (Type A)	
	2420520	6P Connector (Type A)	

5-8. F-2590 Tuner Circuit Board (Stock No. 7521381 MODEL QRX-8001 Only)

Conductor Side



Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR01	0305801	2SC1047 (B)	2 A	D905	{0311160	152473D		L07	4900100	3.3/ μ H	
TR02	0305801	2SC1047 (B)	2 A		0311180	152473D	Diode	L08	4900100	3.3/ μ H	
TR03	0306113	2SC738 (D)	1 A	D906	{0311160	152473D		L09	4900220	100mH	
TR04	0306112	2SC738 (C)	1 B		0311180	151588		L10	4900110	100/ μ H	
TR05	0305731, 2	2SC711 (E, F)	3 C	C01	0669350	15pf		L11	4900110	100/ μ H	Inductor
TR06	{0305731 or 0305732	2SC711 (E) or 2SC711 (F)	1 B	C05	0659015	2200pf		T01	4235930	10.7MHz	IF Coil
	{0305731 or 0305732	2SC711 (E) or 2SC711 (F)		C06	0669005	8.2pf		T02	{4235990 or 4235991	10.7MHz	
TR07	{0305731 or 0305732	2SC711 (E) or 2SC711 (F)	Transistor	C07	0669350	15pf	50V C.C.		{4235991 or 4236000	10.7MHz	FM IF Coil
	{0305731 or 0305732	2SC711 (E) or 2SC711 (F)		C09	0661220	22pf		T03	{4236000 or 4236001	10.7MHz	
TR08	{0305731 or 0305732	2SC711 (E) or 2SC711 (F)	1 B	C11	0669355	20pf		T04	4220650	138/ μ H	Osc Coil
	{0305731 or 0305732	2SC711 (E) or 2SC711 (F)		C12	0679012	1.5pf	500V Gimmick Capacitor				
TR09	0304070	2SA726(Y) (F)	2 A	C13	0661100	10pf		CF01	0910150	10.7MHz	
TR10	03063390	2SC1636-1	3 C	C14	0661100	10pf	50V C.C.	CF02	0910150	10.7MHz	
TR11	03063390	2SC1636-1	3 C	C15	0661100	10pf		CF03	0910150	10.7MHz	Ceramic Filter
TR12	0300283	2SA628 (F)	3 B	C45	0629005	360pf		CF04	0910280	455kHz	
TR13	0305731, 2	2SC711 (E, F)	3 C	C48	0620101	100pf		LF01	0910220	19kHz	Low Pass Filter
IC01	0360350	HA1137	1 B	C49	0620101	100pf	50V P.C.	VR02	1035170	47k Ω (B)	
IC02	0360320	HA1196	1 C	C50	0620561	560pf		VR03	1035190	100k Ω (B)	
IC03	0360150	HA1151	3 B	C51	0620561	560pf		VR04	1035210	220k Ω (B)	Semi-Variabile
FT01	{0370131 or 0370132	3SK41①(L) or 3SK41①(K)	FET	C67	06694400	15pf		VR05	1034250	4.7k Ω (B)	Resistor
	{0370131 or 0370132	3SK41①(L) or 3SK41①(K)		C68	0661150	15pf	50V C.C.	VR06	1035110	4.7k Ω (B)	
D01	0340120	VD1212 Varistor	2 B	C69	0620361	360pf	50V P.C.	S01	1110270	Slide Switch	
D02	0310330, 1	IN60	3 C	C84	0661150	15pf		VC01	1220250	AM-FM Variable Capacitor	
D03	0311160	1S2473D	2 B	C85	0661150	15pf	50V C.C.	TC03	1230090	Trimmer Capacitor	
D04	0311160	1S2473D	Diode	L01	4200720	Antenna Coil	3 A		2410600	6P Pin Ass'y (Type D)	
D901	0311160	1S2473D		L02	4210340	RF Coil	3 A		2410910	2P Pin Ass'y (Type E)	
D902	0311160	1S2473D		L03	4220400	Osc Coil	2 A		2410920	3P Pin Ass'y (Type E)	
				L04	4290110	Choke Coil	2 A				
				L05	4290280	18mH Inductor	1 B				
				L06	4290011	Peaking Coil	1 B				

5-9. F

Conducto

Parts List

Parts No.	Stock
TR01, 02	03
TR03, 04	03
TR05, 06	03

5-10. I
Conductors

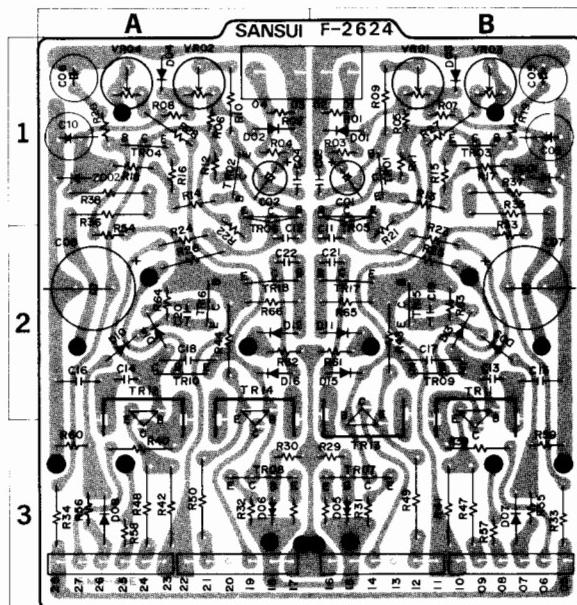


5-11. I Conductors



5-9. F-2624 Driver Circuit Board (Stock No. 7571471 MODEL QRX-9001) (Stock No. 7571481 MODEL QRX-8001)

Conductor Side



Parts List

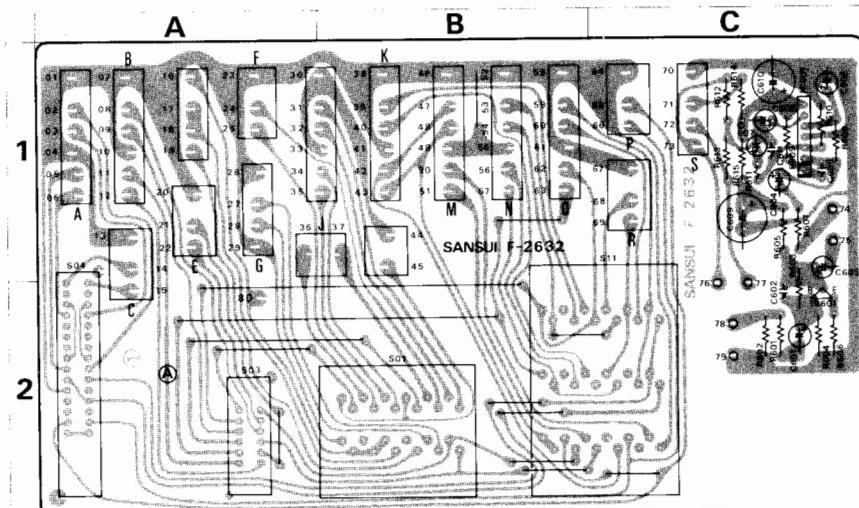
Parts No.	Stock No.	Description	Position
TR01, 02	0306270	2SC1708 (F)	1 B . 1 A
	or	or	
	0306271	2SC1708 (G)	
TR03, 04	0306270	2SC1708 (F)	Transistor 1 B . 1 A
	or	or	
	0306271	2SC1708 (G)	
TR05, 06	0307991	2SA899 (B)	1 B . 1 A
	or	or	
	0307992	2SA899 (V)	

Parts No.	Stock No.	Description	Position
TR07, 08	{ 0306401 or 0306402	{ 2SC1904 (B) or 2SC1904 (V)	3 B , 3 A
TR09, 10	030587/2	2SC984 (B, C)	2 B , 2 A
TR11, 12	{ 0308431 or 0308432	{ 2SD381 (M) or 2SD381 (L)	Transistor 2.3B.2.3A
TR13, 14	{ 0303261 or 0303262	{ 2SB536 (M) or 2SB536 (L)	2.3B.2.3A

Parts No.	Stock No.	Description	Position
TR15.16	0305951	2SC945 (Q)	Transistor 2 B . 2 A
	or	or	
	0305952	2SC945 (P)	
TR17.18	0300510	2SA733 (P)	Transistor 2 B . 2 A
	or	or	
	0300511	2SA633 (Q)	
D01.02	03111160	152473D	1.2B . 1 A
	or	or	
	03111180	151588	
D03.04	03111160	152473D	1 B . 1 A
	or	or	
	03111180	151588	
D05.06	0340120	VD1212	3 B . 3 A
	03111160	152473D	
D07.08	03111180	151588	3 B . 3 A
	03111160	152473D	
D09.10	03111180	151588	Diode 2 B . 2 A
	or	or	
	03111160	152473D	
D11.12	03111180	151588	2 B . 2 A
	03111160	152473D	
D13.14	03111180	151588	2 B . 2 A
	03111160	152473D	
D15.16	03111180	151588	2 B . 2 A
	or	or	
ZD01.02	0316070	EQA01 24R	1 B . 1 A
R33.34	0191181	180Ω	3 B . 3 A
R35.36	0191479	4.7Ω	
R37.38	0210392	3.9kΩ	1 B . 1 A
R39.40	0192100	10Ω	
R41.42	0192151	150Ω	3 B . 3 A
R43.44	0192151	150Ω	
R47.48	0192479	4.7Ω	3 B . 3 A
R49.50	0192479	4.7Ω	
VR01.02	1035350	4.7kΩ (B)	Semi-Variable Resistor 1 B . 1 A
VR03.04	1035310	1kΩ (B)	
	2410930	4P Pin Assy (Type E)	
	2420520	6P Connector (Type A)	
	5936691	Heat Sink	

5-10. F-2632 Selector Circuit Board (Stock No. 7594371 MODEL QRX-8001 Only)

Conductor Side



Parts List

Parts No.	Stock No.	Description	Position
TR601	0306070.1	2SC1313 (F, G) Transistor	2 C
IC601	0360200	BA3125 I.C.	1 C
C601	0573108	0.1μF .35WV T.C.	2 C
S01	1102720	Rotary Switch, SELECTOR	2 B
S03	1170780	Lever Switch, AUX	2 A
S04	1170820	Lever Switch, DOLBY ADAPTOR	2 A
S11	1103570	Rotary Switch, LOUDNESS	2 B . C
	24101590	4P Pin Ass'y (Type D)	
	2410600	6P Pin Ass'y (Type D)	
	2410910	2P Pin Ass'y (Type E)	
	2410920	3P Pin Ass'y (Type E)	

5-11. F-2642 Indicator Circuit Board (Stock No. 7594321 MODEL QRX-9001)
(Stock No. 7594291 MODEL QRX-8001)

Conductor Side

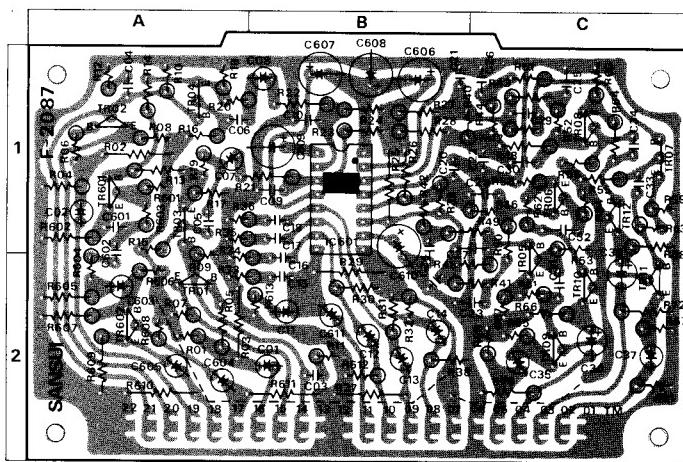


QRX-6001

Parts List		Description
Parts No.	Stock No.	
LD01	0319060	SG2-12C (Red) } Light Emitted
LD02-06	0319060	SG2-12C (Red) } Diode

5-12. F-2087 QS Matrix Circuit Board (Stock No. 7650481 MODEL QRX-9001) (Stock No. 7650531 MODEL QRX-8001)

Conductor Side

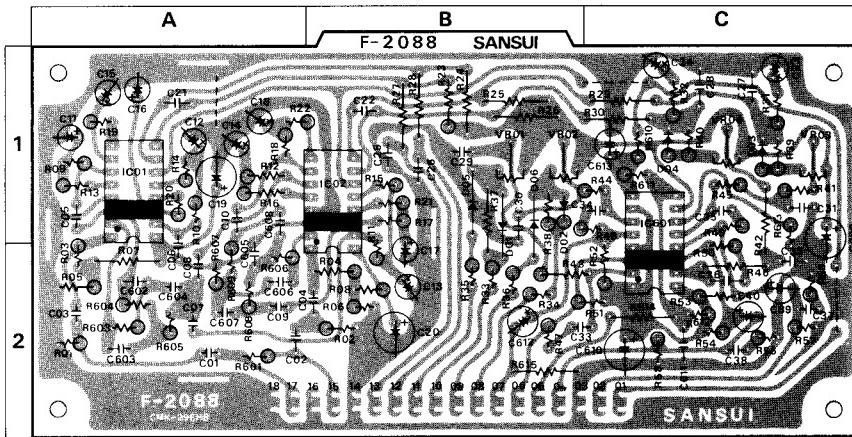


Parts List

Parts No.	Stock No.	Description	Position
TR01	0300470, 1	2SA726 (F, G)	2 A
TR02	0300470, 1	2SA726 (F, G)	1 A
TR03, 04	0306090, 1	2SC1312R (F, G)	1 A
TR05, 06	0306091	2SC1312R (G)	1 C, 1 C
TR07	0306091	2SC1312R (G)	Transistor 1 C
TR08	0306091	2SC1312S (G)	1 C
TR09, 12	0306090, 1	2SC1312R (F, G)	2 C, 1 C
TR01	0306090, 1	2SC1312R (F, G)	1 A
TR02	0306090, 1	2SC1312R (F, G)	2 A
IC01	0360210	HA1328 I.C.	1 B
C19	0620561	560pF	1 B
C20	0620561	560pF	1 B
C21	0620561	560pF 50V P.C.	1 B
C22	0620561	560pF	1 C
C33	0620561	560pF	1 C
	2420520	6P Connector (Type A)	
	2420530	8P Connector (Type A)	

5-13. F-2088 QS Phase Discriminator Section Circuit Board

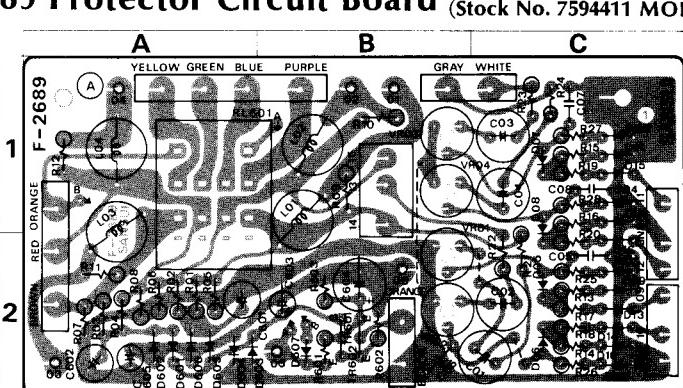
Conductor Side



Parts No.	Stock No.	Description	Position
IC01	0360100	HD3103PB I.C.	1, 2 C
D01	0311160	1S2473D	1, 2 B
D02	0311160	1S2473D	1 B
D03	0311160	1S2473D	1 C
D04	0311160	1S2473D	1 C
D05	0311160	1S2473D	1 B
D06	0311160	1S2473D	1, 2 B
C03	0620331	330pF	2 A
C04	0620331	330pF	2 B
C07	0620681	680pF	2 A
C08	0620681	680pF	2 A
C09	0620681	680pF 50V P.C.	2 A
C10	0620681	680pF	1 A
C604	0620471	470pF	2 A
C607	0620471	470pF	2 A
C608	0620471	470pF	1 A
VR01	1035490	1MΩ(8)	1 B
VR02	1035490	1MΩ(8)	1 B
VR03	1035490	1MΩ(8)	Semi-Variable Resistor 1 C
VR04	1035490	1MΩ(8)	1 C
	2420530	8P Connector (Type A)	
	2420540	10P Connector (Type A)	

5-14. F-2689 Protector Circuit Board (Stock No. 7594341 MODEL QRX-9001) (Stock No. 7594411 MODEL QRX-8001)

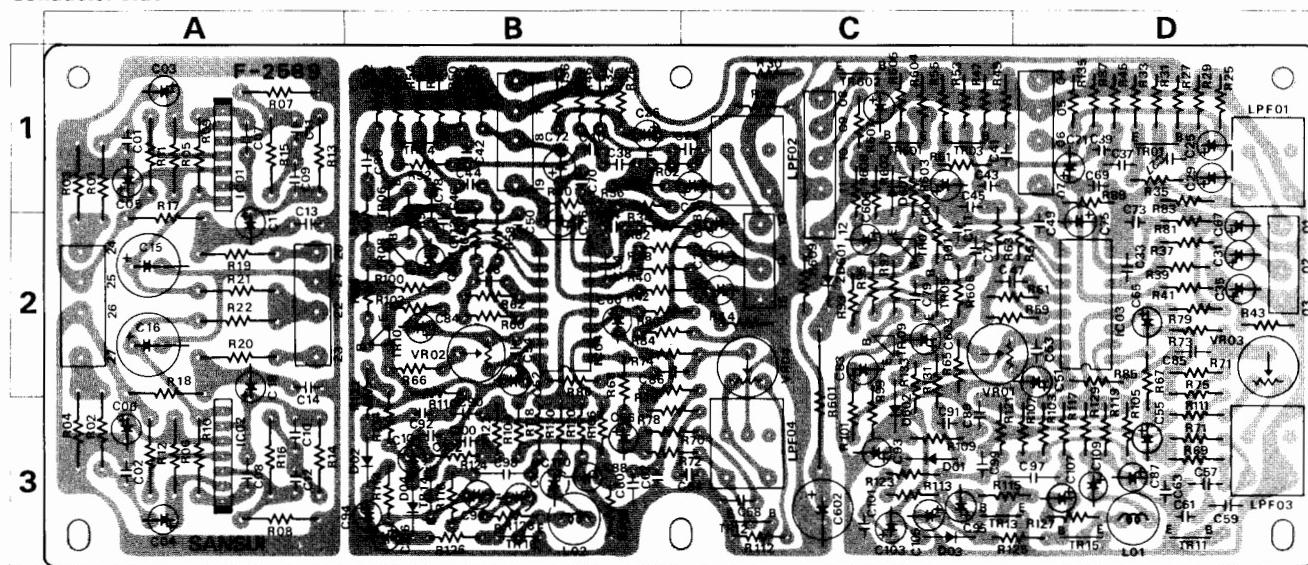
Conductor Side



Parts No.	Stock No.	Description	Position
TR01	0306131, 2	2SC1364 (6, 7)	Transistor 2 B
TR02	0306131, 2	2SC1364 (6, 7)	2 B
D01-04	0310330, 1	1N60	1, 2 C
D05-08	0311160	1S2473D	1, 2 C
	or		
	0311180	1S1588	
D09-12	0310330, 1	1N60	1, 2 C
D13-16	0310330, 1	1N60	2 A
D401	0310330, 1	1N60	2 A
D602	0310330, 1	1N60	2 A
D603	0310330, 1	1N60	2 A
D604	0310330, 1	1N60	2 A
D605	0310330, 1	1N60	2 A
D606	0310330, 1	1N60	2 A
D607	0310340	10D-1	2 B
R09-12	0103479	4.7Ω 1W C.R.	1B, 1, 2 A
R21-24	0210471	47Ω 1W N.I.R.	1, 2 C
		(MODEL QRX-9001 Only)	
L01-04	4292010	Filter Coil	1 A, B
RL601	{ 1150101 or 1150103 }	MY4-02-US or RABK-4B-DC24V	Relay 1 A
VR01-04	1035110	4.7kΩ(8) Semi-Variable Resistor	1, 2 B
	2410670	3P Pin Assy (Type E)	
	2410920	3P Pin Assy (Type E)	

5-15. F-2589 Equalizer & CD-4 Circuit Board (Stock No. 7551021 MODEL QRX-9001) (Stock No. 7551011 MODEL QRX-8001)

Conductor Side

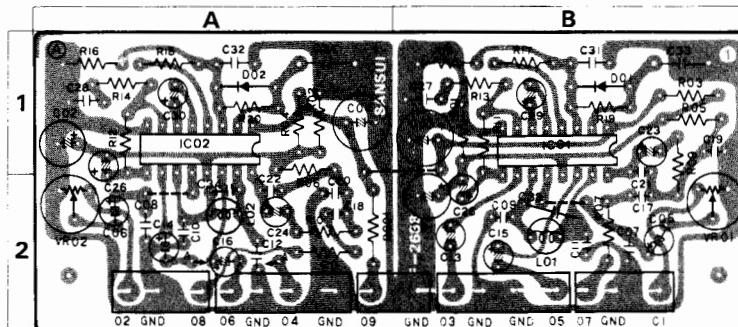


Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	
TR01, 02 or 0306070, 1	0306011, 2 2SC1222 (E, F) 2SC1313 (F, G)		1D, 1A, B	IC01, 02 0360330	0360190 CD4-392	I.C. 2D, 2B		R601 L01, 02	0182151 4900220	2 W Cer.R. 100mH Inductor	2, 3C 3D, 3B	
TR03, 04 or 0306070, 1	0306011, 2 2SC1222 (E, F) 2SC1313 (F, G)		1C, 1B	D01, 02 0311160	IS2473D		3C, 3B	LF01, 02 LF03, 04	0910340 4910340	DC-13Q DC-13Q Ceramic Filter		
TR05, 06 0305951-3	2SC945 (Q, P, K)	Transistor	2C, 1, 2B	D03, 04 0311160	IS2473D		3C, 3B	VR01, 02	1035130	10kΩ(8)	Semi-Variable Resistor	2C, D, 2B
TR07, 08 0300510, 1	2SA733 (P, Q)		2C, 2B	D601 0311160	IS2473D			VR03, 04	1035100	3.3kΩ(8)		2D, 2C
TR09, 10 0305951-3	2SC945 (Q, P, K)		2C, 2B	D602 0311180	1S1588	Diode		2410570	3020-5A	SP Pin Ass'y (Type D)		
TR11, 12 0305951-3	2SC945 (Q, P, K)		3D, 3C	D602 0311160	IS2473D			2410580	3020-3A	3P Pin Ass'y (Type D)		
TR13, 14 0305952	2SC945 (P)		3C, D, 3B	D602 0311180	1S1588			2410590	3020-4A	4P Pin Ass'y (Type D)		
TR15, 16 0305952	2SC945 (P)		3D, 3B	ZD601 0316290	RD-12E(B)		2C					
TR601 0305951-3	2SC945 (Q, P, K)		1C	C103, 104 0573228	0.22μF	35WV T.C.	3C, 3B					
TR602 0305951-3	2SC945 (Q, P, K)		1C	C109, 110 0573688	0.68μF		3D, 3B					

5-16. F-2688 Dolby Circuit Board (Stock No. 7660081 MODEL QRX-9001 Only)

Conductor Side



Parts List

Parts No.	Stock No.	Description	Position
IC01, 02	0360340	NE545B IC	1B, 1A
D01, 02	0310400	1N34A Diode	1B, 1A
Lc1, 02	0201820	8211 IW M.R.	2A
VR01, 02	1035430	100kΩ (B) Semi-Variable Resistor	2B, 2A
	2410680	4P Pin Ass'y (Type F)	

5-17. F-2640 Illumination Circuit Board (1)

(Stock No. 7594351 MODEL QRX-9001)
(Stock No. 7594421 MODEL QRX-8001)

Parts List

Parts No.	Stock No.	Description
	7726200	Lamp Ass'y (C) (MODEL QRX-9001 Only)

5-18. F-2641 Illumination Circuit Board (2)

(Stock No. 7594361 MODEL QRX-9001)
(Stock No. 7594431 MODEL QRX-8001)

Parts List

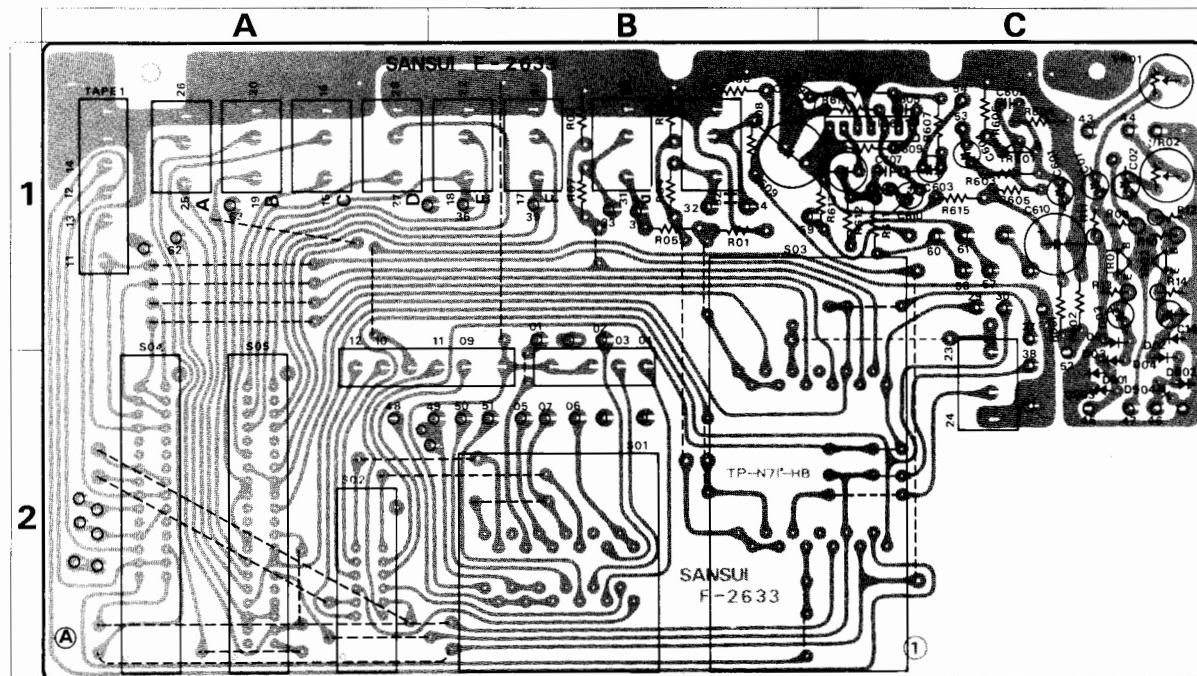
Parts No.	Stock No.	Description
R01	0193220	22Ω 1W F.R.
	7726210	Lamp Ass'y (D)
	7726200	Lamp Ass'y (C) (MODEL QRX-9001 Only)

5-19. F-2635 4-ch Function Switch & REC CAL Tone Sub Circuit Board

(Stock No. 7650471 MODEL QRX-9001)
(Stock No. 7650521 MODEL QRX-8001)

5-20. F-2633 Dolby Change Circuit Board (Stock No. 7660061 MODEL QRX-9001 Only)

Conductor Side



Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR01,02	{ 0305732 or 0305733 }	2SC711 (F) 2SC711 (G)	1 C	D03,04	0310330, I	IN60	2 C	S04	1170820	Lever Switch, TAPE MONITOR (2 Contact)	2 A
	{ 0306070 or 0306071 }	2SC1313 (F) 2SC1313 (G)	1 C	D901,902	0310330, I	IN60	Diode	S05	1171000	Lever Switch, TAPE MONITOR (3 Contact)	2 A
				D903,904	0310330, I	IN60		2410590	4P Pin Ass'y (Type D)		
IC601	0360200	BA3125 IC	1 C	C601	0573108	0.1/F 35V T.C.	1 C	2410600	6P Pin Ass'y (Type D)		
D01,02	0310330, I	IN60 Diode	1 C	VR01,02	1035410	47kΩ (B) Semi-Variable Resistor	1 C	2410670	3P Pin Ass'y (Type F)		
				S01	1102720	Rotary Switch, SELECTOR	2 B				
				S02	1105230	Rotary Switch, AUX	2 A				
				S03	1170780	Lever Switch, DOLBY NR	1,2 B C				

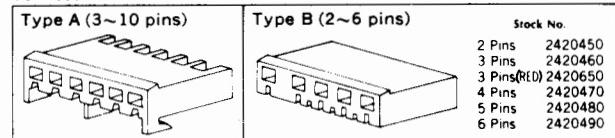
5-21. F-2686 4-ch Function Switch & REC CAL Tone Sub Circuit Board (Stock No. 7650511 MODEL QRX-9001) (Stock No. 7650561 MODEL QRX-8001)

5-22. F-2652 Dolby Sub Circuit Board (Stock No. 7660071 MODEL QRX-9001 Only)

5-23. Figures

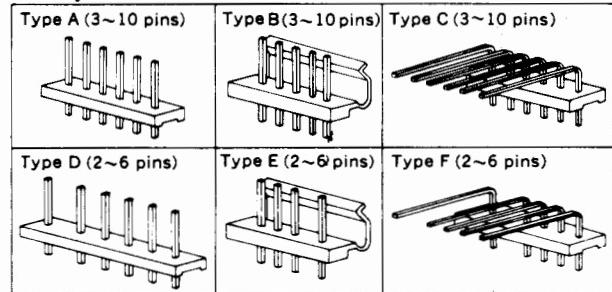
Connectors & Pin Ass'y

Connectors



NOTE: Since stock number of female connectors (type B) with wires are not shown in each parts list of Complete circuit board, please refer to the above parts list when ordering the connector.

Pin Ass'y

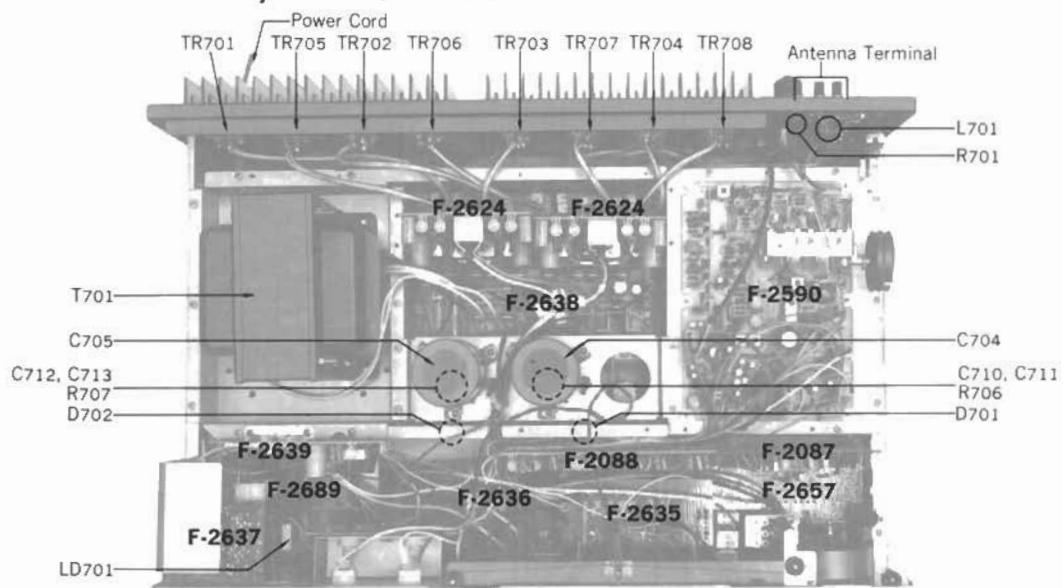


Abbreviations

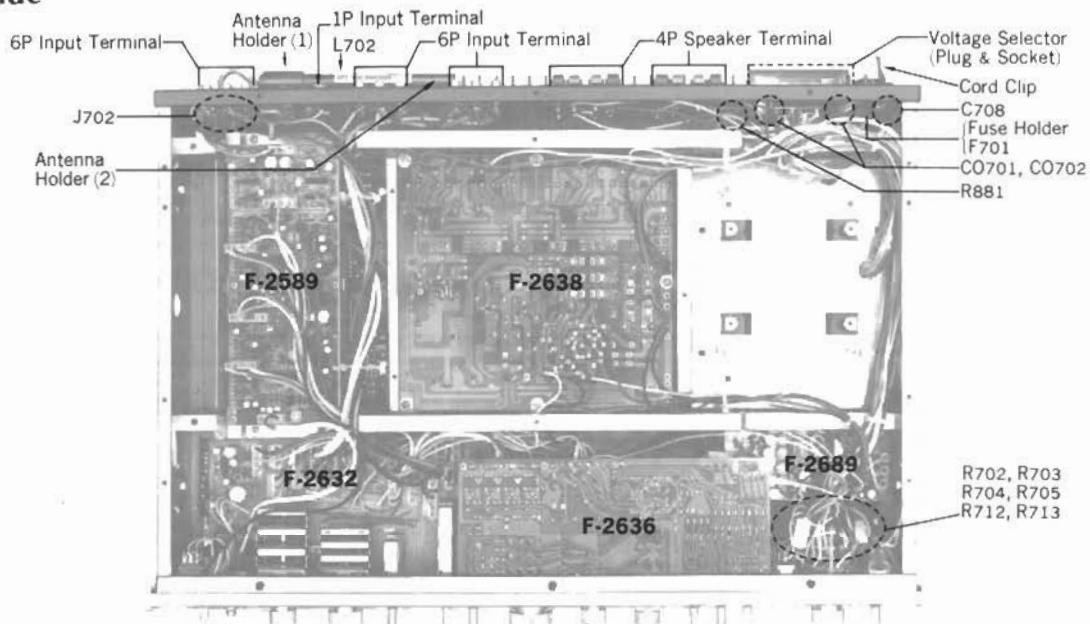
C.R.	: Carbon Resistor	E.C.	: Electrolytic Capacitor
S.R.	: Solid Resistor	BP.E.C.	: Bi-Polar Electrolytic Capacitor
Ce.R.	: Cement Resistor	C.C.	: Ceramic Capacitor
M.R.	: Metallized Film Resistor	Mi.C.	: Mica Capacitor
F.R.	: Fusing Resistor	O.C.	: Oil Capacitor
N.I.R.	: Non-Inflammable Resistor	P.C.	: Polystyrene Capacitor
M.C.	: Mylar Capacitor	T.C.	: Tantalum Capacitor

6. OTHER PARTS/6-1. QRX-8001

Top Side



Bottom Side

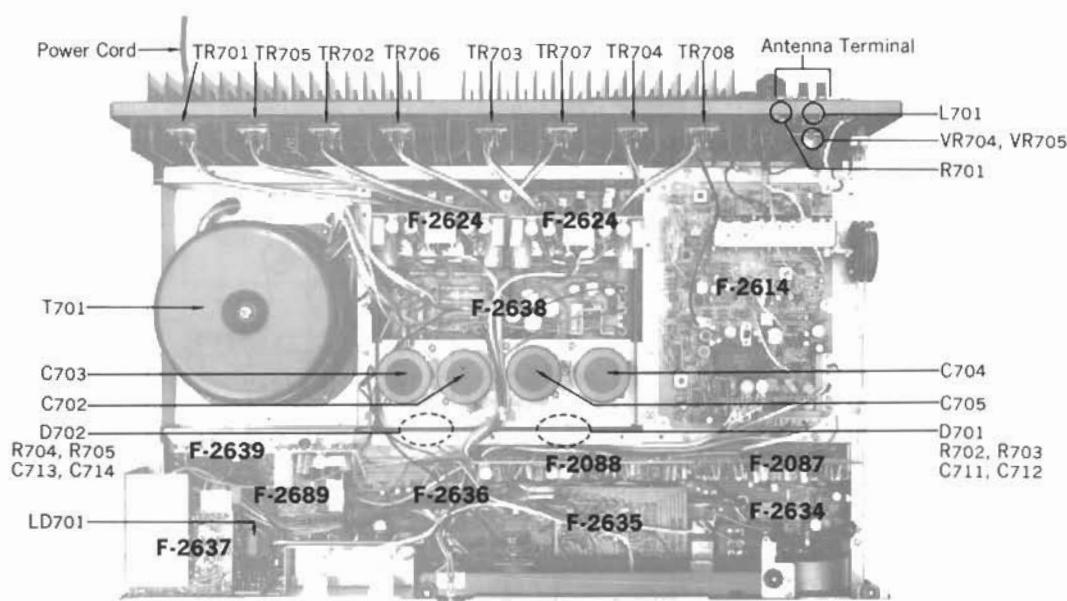


Parts List (Top Side & Bottom Side)

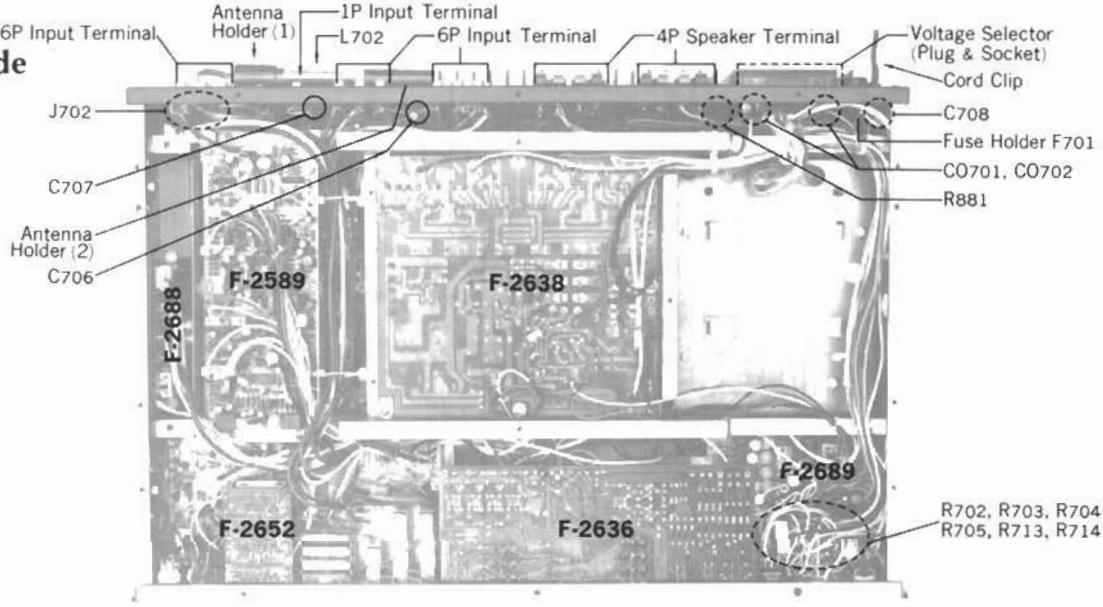
Parts No.	Stock No.	Description	Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
TR701~704 or 0303430 0303431 0308600 0308601	25B611 (B) 25B611 (C) 2SD581 (B) 2SD581 (C)	Transistor	R702~705 0163221 0202332 0202332 0201122 0201392 0114335	22012 3.3kΩ 3.3kΩ 1.2kΩ 3.9kΩ 3.3MΩ	3 W Ce.R. 2 W MR. 1 W NIR 1 W NIR 1/2 W SR	J702 4290021 4200830 4200831	2430041 2030040 2200290 2200330 2210310 2290160 2200320 2410091 2410830 2230052 3800010 3910490 5286480 5286450	SP DIN Jack Transistor Socket 1P Output Terminal 6P Input Terminal Antenna Terminal 4P Speaker Terminal 4P Input Terminal Voltage Selector, plug Voltage Selector, socket Ground Terminal Power Cord Cord Clip, power cord Antenna Holder (1) Antenna Holder (2)
D701 0311440 0311450	SG-ST (S1) SG-ST (S2)	Diode	L701 4290021 4200830 4200831	75Ω/300Ω A85-26 235-1H or 6G-013 265-1H	Antenna Transformer Bar Antenna	T701 4002510	Power Transformer	
C704 0559350 C703 0559350 C705 0605337 C706 0659802 C710~713 0655103	15000pF 15000pF 50V E.C. 15000pF 0.033μF 250V M.C. 0.0447μF 150V C.C. 10000pF 500V C.C.		F701 0432500 0432280 2300060	7A 125V (AC 100~120V) 4A 125V (AC 220~240V) AC Fuse		CO701, 702 2450060	AC Outlet	
R701 0103122	1.2kΩ 1.2W Ce.R.							

6-2. QRX-9001

Top Side



Bottom Side



Parts List (Top Side & Bottom Side)

Part No.	Stock No.	Description
TR701-704	0306230 or 0306231	2SC1115 (P) 2SC1115 (O)
	0300870	2SA746 (P)
TR705-708	0300871	2SA746 (O)
D701	0311440	SG-ST (S1)
D702	0311450	SG-ST (S)
LD701	0319090	Light Emitted Diode
C702-703	0559360	10000-pF 50V C
C704-705	0559360	10000-pF 50V C
C706	0605337	0.033-pF 250V M.C
C708	0659802	0.0047-pF 150V C.C
C711-714	0655103	10000-pF 500V C.C
R701	0103122	1.2kΩ 1/2W C.R

Part No.	Stock No.	Description
TR702-705	0163221	22012 3W Ce.R.
TR706-707	0202332	3.3kΩ 2W M.R.
R712	0202152	1.5kΩ 2W Ce.R.
R713	0201392	3.9kΩ 1W Ce.R.
R881	0114335	3.3MΩ 1/2W S.R.
VR704, 705	1005300, 1	5kΩ CD-4 Adjust Volume
T701	4002500	Power Transformer
L701	4290021	75Ω/300Ω Antenna Transformer
L702	{ 4200830 or 4200831	235MHz ARS-26 Bar Antenna 265MHz 6G-013 Bar Antenna
F701	{ 2300060 or 0432290 0434060	Fuse Holder 5A 125V (AC 220-240V) AC Fuse 10A 250V (AC 100-120V)

Part No.	Stock No.	Description
J702	2430041	SP DIN Jack
	2030040	Transistor Socket
	2200290	1P Output Terminal
	2200330	6P Input Terminal
	2210310	Antenna Terminal
	2290160	4P Speaker Terminal
	2410091	Voltage Selector plug
	2410830	Voltage Selector socket
	3800010	Power Cord
	3910490	Cord Clip power cord
	2230052	Ground Terminal
	2200320	4P Input Terminal
	5286480	Antenna Holder (1)
	5286450	Antenna Holder (2)

1.4 5318750
D-7 Vee Knob
Front Panel Ass'y
MODEL QRX-8001
7007381

4.5 1060380, 1
1060381
250112 4 Balance Volume (Left - + Right)
250112 4 Balance Volume (Front - - Back)
1065030 1
250112 4 REC Level Volume (Model QRX-
8001)
1015210 1
REC Level Volume (Model QRX-
8001)

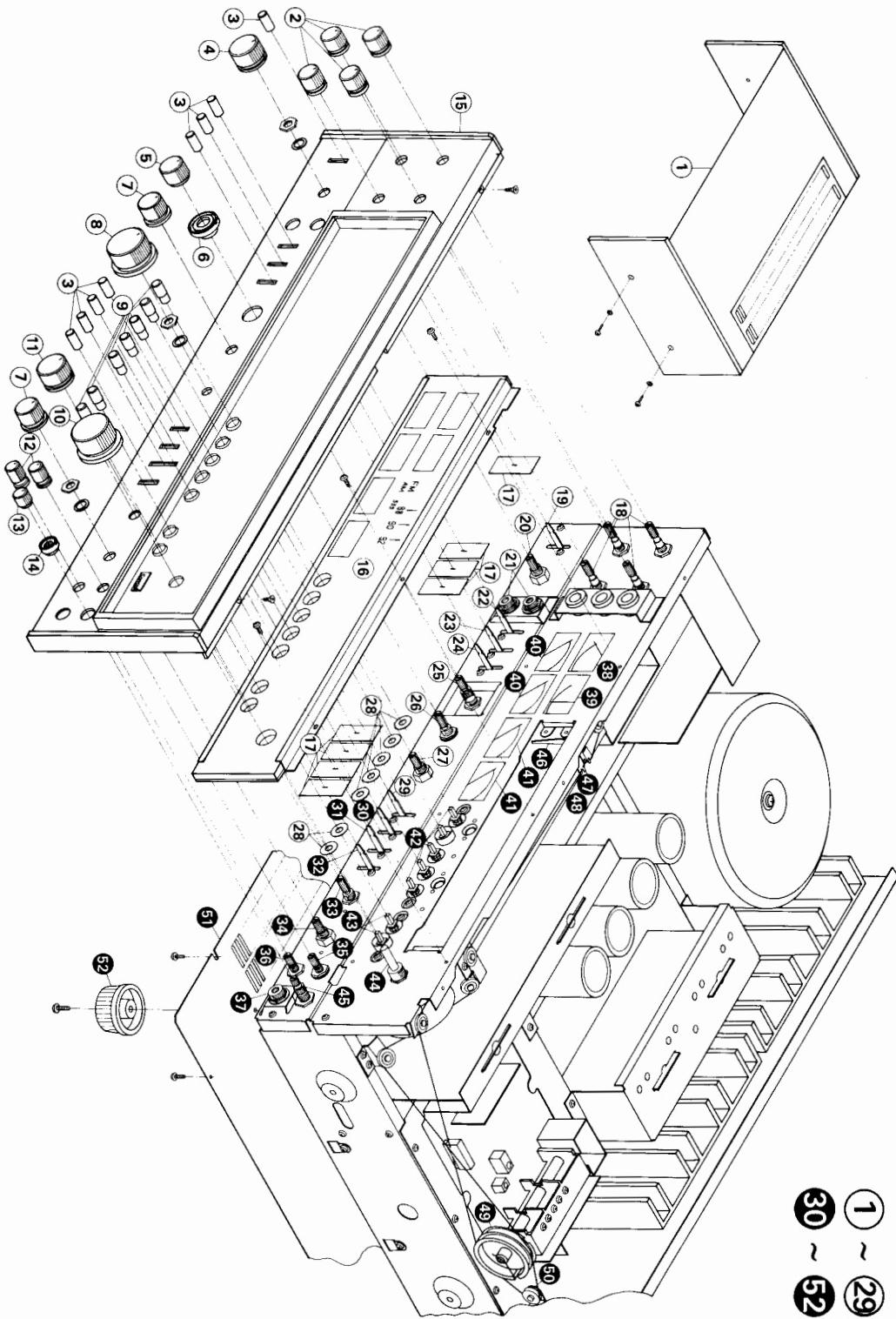
QX8-9001
CD-4 Separation
Volume

5.0 7136087
5058670
Bottom Plate
Front Panel

5.2

1800020

6-3. Exploded View (QRX-8001/9001)



Parts List

Parts No.	Stock No.	Description
1	5727030	Wood Bumper
2	5318720	E-13 Type Knob
3	7106130	Lever Switch Knob, C-2 Type
4	5318380	M-7 Type Knob
5	5318770	WE-7 Type Knob
6	5318790	WO-7 Type Knob
7	5318410	S-10 Type Knob
8	5318780	VOLUME Knob, M-8 Type
9	5326590	PUSH Knob
10	5318420	T-12 Type Knob
11	5318380	M-7 Type Knob
12	5318761	F-7 Type Knob (MODEL QRX-8001)
13	5318340	N-6 Type Knob (MODEL QRX-9001)
14	5318741	C-7 Type Knob
15	5318750	D-7 Type Knob
16	7002371	(MODEL QRX-9001)
17	5304790	Shaded Plate
18	5304870	Power Window
19	5318730	Knob Ring
20	5336510	Sansui Mark
21	5308112	Dial Glass (MODEL QRX-8001)
22	5308112	Dial Glass (MODEL QRX-9001)
23	5308102	Masking Sheet
24	5304740	Tone Control Volume, 100:1 (B)
25	1015200	Power Control Volume, 100:1 (B)
26	1170870	Speaker Selector
27	1170870	Phone Jack
28	1170870	Audio Muting Switch
29	1170880	Low Filter Switch
30	1170880	High Filter Switch
31	1170880	Balance Volume (Left, --> Right)
32	1170880	Volume Control (Front, --> Back)
33	1170880	CD-4 Separation Volume (MODEL QRX-9001)
34	1170880	Play-Call Volume, 500:1 (B)
35	1170880	CD-4 Separation Volume (MODEL QRX-9001)
36	1005300	CD-4 Separation Volume (MODEL QRX-9001)
37	1005300	CD-4 Separation Volume (MODEL QRX-9001)
38	1005300	CD-4 Separation Volume (MODEL QRX-9001)
39	1005300	CD-4 Separation Volume (MODEL QRX-9001)
40	1005300	CD-4 Separation Volume (MODEL QRX-9001)
41	1005300	CD-4 Separation Volume (MODEL QRX-9001)
42	1170880	AUX Switch
43	1170880	Selector
44	1170880	Tape Monitor Switch (MODEL QRX-8001)
45	1170880	DOLBY NFB Switch (MODEL QRX-9001)
46	1170880	CD-4 Separation Volume (MODEL QRX-9001)
47	1170880	Play-Call Volume, 500:1 (B)
48	1170880	CD-4 Separation Volume (MODEL QRX-9001)
49	1170880	CD-4 Separation Volume (MODEL QRX-9001)
50	1170880	CD-4 Separation Volume (MODEL QRX-9001)
51	1170880	CD-4 Separation Volume (MODEL QRX-9001)
52	1170880	CD-4 Separation Volume (MODEL QRX-9001)

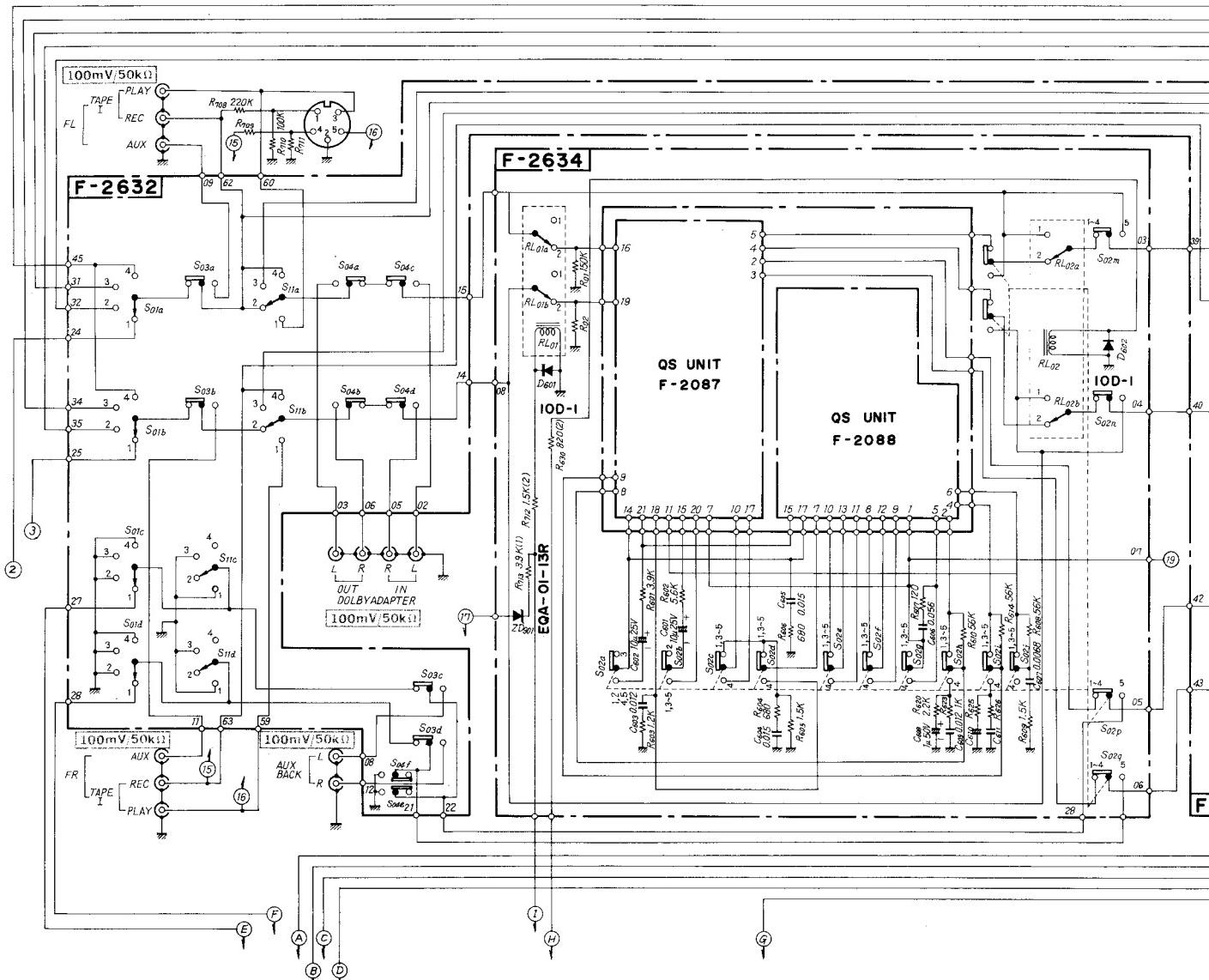
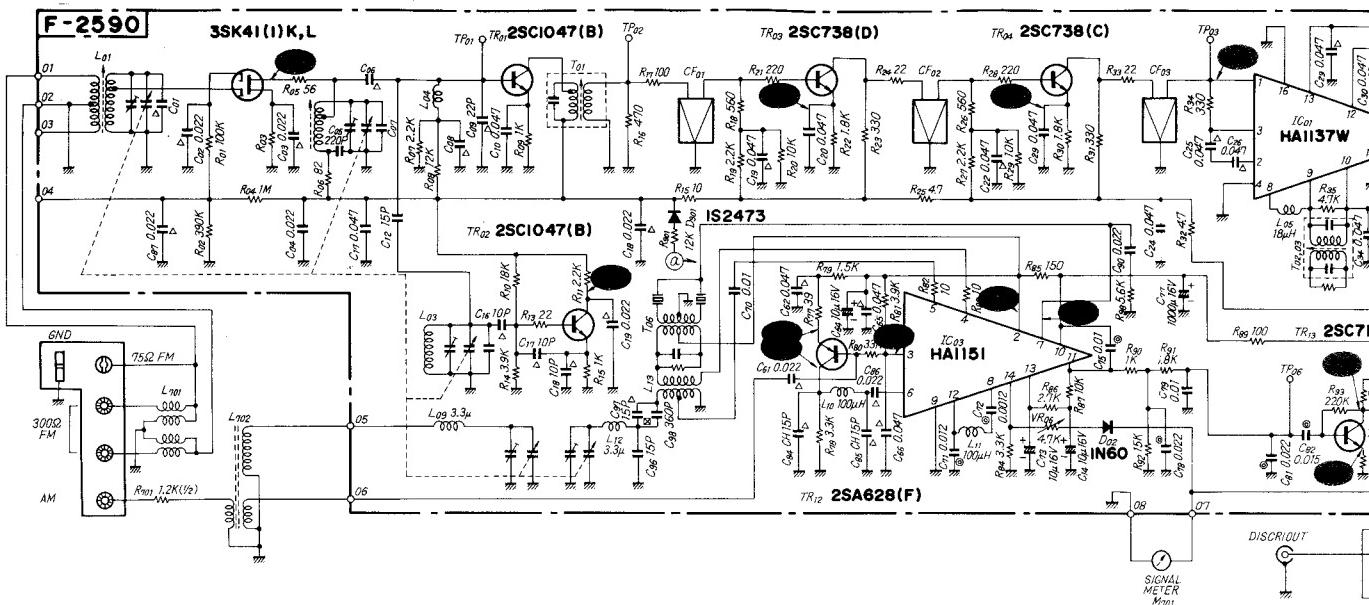
Parts No.	Stock No.	Description
1	5318720	(MODEL QRX-9001)
2	5318720	(MODEL QRX-9001)
3	5318720	(MODEL QRX-9001)
4	5318720	(MODEL QRX-9001)
5	5318720	(MODEL QRX-9001)
6	5318720	(MODEL QRX-9001)
7	5318720	(MODEL QRX-9001)
8	5318720	(MODEL QRX-9001)
9	5318720	(MODEL QRX-9001)
10	5318720	(MODEL QRX-9001)
11	5318720	(MODEL QRX-9001)
12	5318720	(MODEL QRX-9001)
13	5318720	(MODEL QRX-9001)
14	5318720	(MODEL QRX-9001)
15	5318720	(MODEL QRX-9001)
16	5318720	(MODEL QRX-9001)
17	5318720	(MODEL QRX-9001)
18	5318720	(MODEL QRX-9001)
19	5318720	(MODEL QRX-9001)
20	5318720	(MODEL QRX-9001)
21	5318720	(MODEL QRX-9001)
22	5318720	(MODEL QRX-9001)
23	5318720	(MODEL QRX-9001)
24	5318720	(MODEL QRX-9001)
25	5318720	(MODEL QRX-9001)
26	5318720	(MODEL QRX-9001)

Parts No.	Stock No.	Description
1	5318720	(MODEL QRX-9001)
2	5318720	(MODEL QRX-9001)
3	5318720	(MODEL QRX-9001)
4	5318720	(MODEL QRX-9001)
5	5318720	(MODEL QRX-9001)
6	5318720	(MODEL QRX-9001)
7	5318720	(MODEL QRX-9001)
8	5318720	(MODEL QRX-9001)
9	5318720	(MODEL QRX-9001)
10	5318720	(MODEL QRX-9001)
11	5318720	(MODEL QRX-9001)
12	5318720	(MODEL QRX-9001)
13	5318720	(MODEL QRX-9001)
14	5318720	(MODEL QRX-9001)
15	5318720	(MODEL QRX-9001)
16	5318720	(MODEL QRX-9001)
17	5318720	(MODEL QRX-9001)
18	5318720	(MODEL QRX-9001)
19	5318720	(MODEL QRX-9001)
20	5318720	(MODEL QRX-9001)
21	5318720	(MODEL QRX-9001)
22	5318720	(MODEL QRX-9001)
23	5318720	(MODEL QRX-9001)
24	5318720	(MODEL QRX-9001)
25	5318720	(MODEL QRX-9001)
26	5318720	(MODEL QRX-9001)

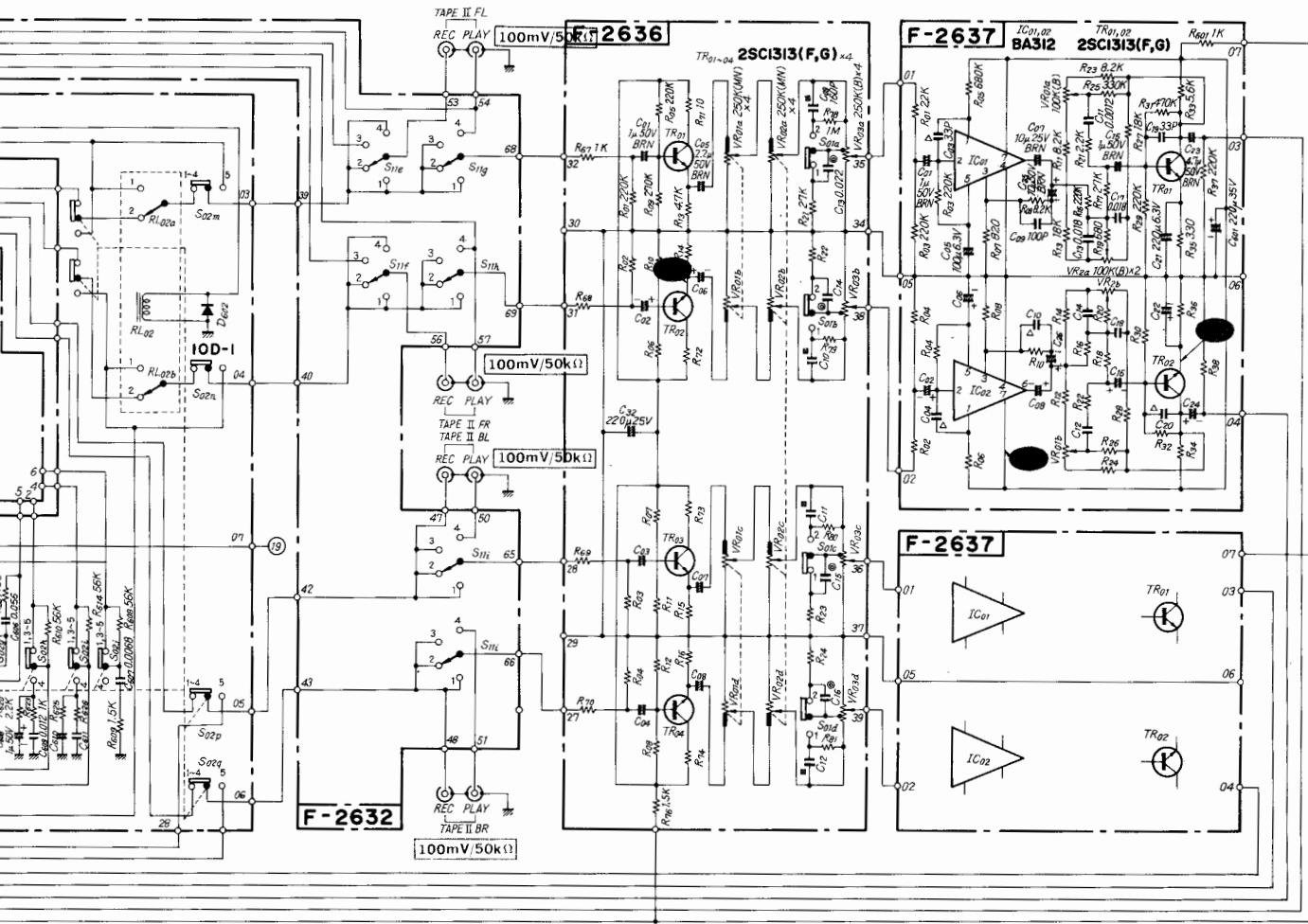
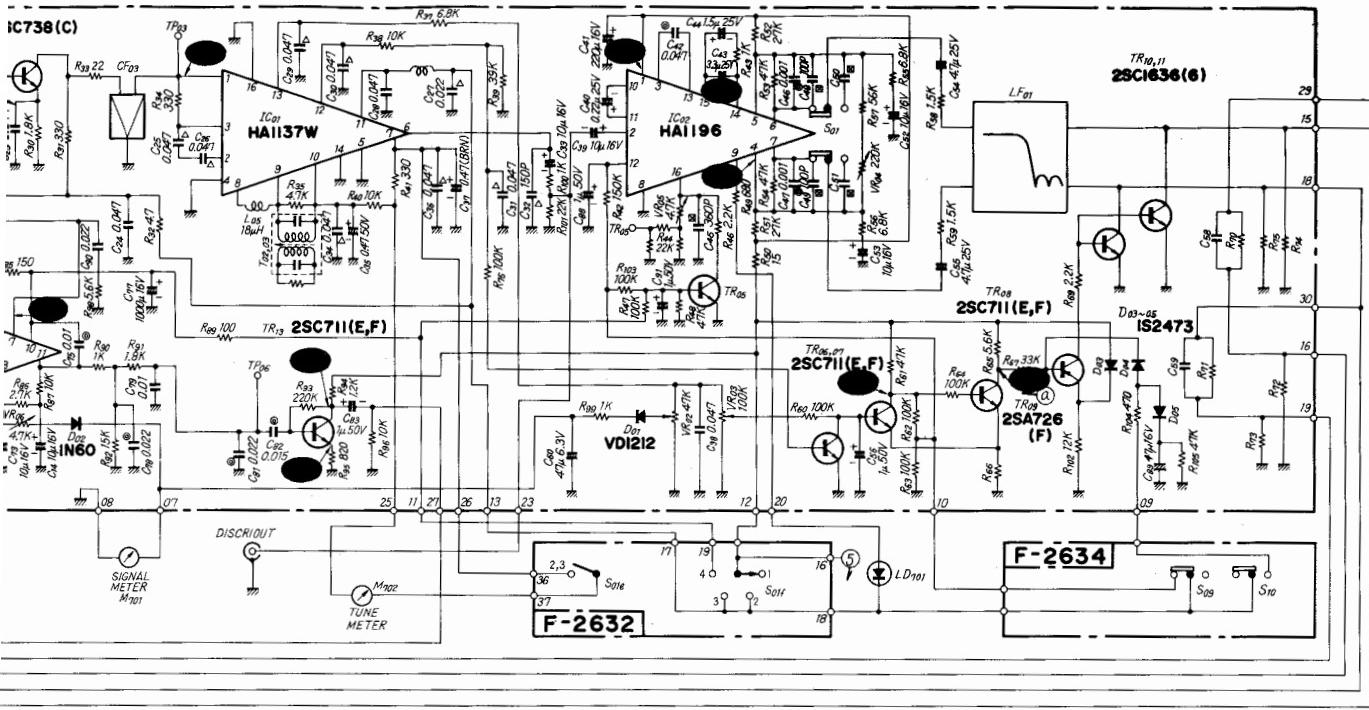
Parts No.	Stock No.	Description
1	5318720	(MODEL QRX-9001)
2	5318720	(MODEL QRX-9001)
3	5318720	(MODEL QRX-9001)
4	5318720	(MODEL QRX-9001)
5	5318720	(MODEL QRX-9001)
6	5318720	(MODEL QRX-9001)
7	5318720	(MODEL QRX-9001)
8	5318720	(MODEL QRX-9001)
9	5318720	(MODEL QRX-9001)
10	5318720	(MODEL QRX-9001)
11	5318720	(MODEL QRX-9001)
12	5318720	(MODEL QRX-9001)
13	5318720	(MODEL QRX-9001)
14	5318720	(MODEL QRX-9001)
15	5318720	(MODEL QRX-9001)
16	5318720	(MODEL QRX-9001)
17	5318720	(MODEL QRX-9001)
18	5318720	(MODEL QRX-9001)
19	5318720	(MODEL QRX-9001)
20	5318720	(MODEL QRX-9001)
21	5318720	(MODEL QRX-9001)
22	5318720	(MODEL QRX-9001)
23	5318720	(MODEL QRX-9001)
24	5318720	(MODEL QRX-9001)
25	5318720	(MODEL QRX-9001)
26	5318720	(MODEL QRX-9001)

1 ~ 29
30 ~ 52

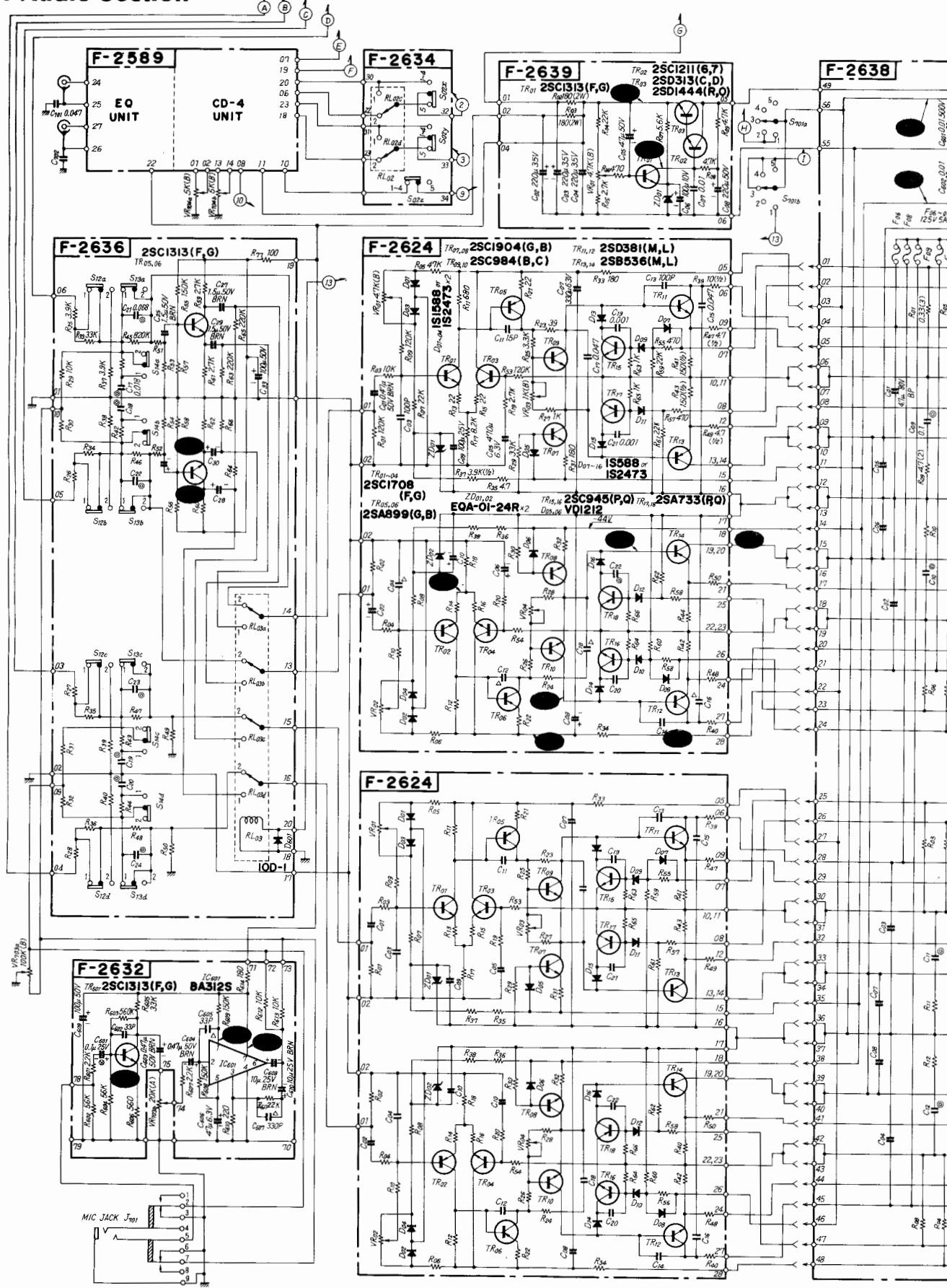
7. SCHEMATIC DIAGRAM/7-1. QRX-8001 Tuner Section



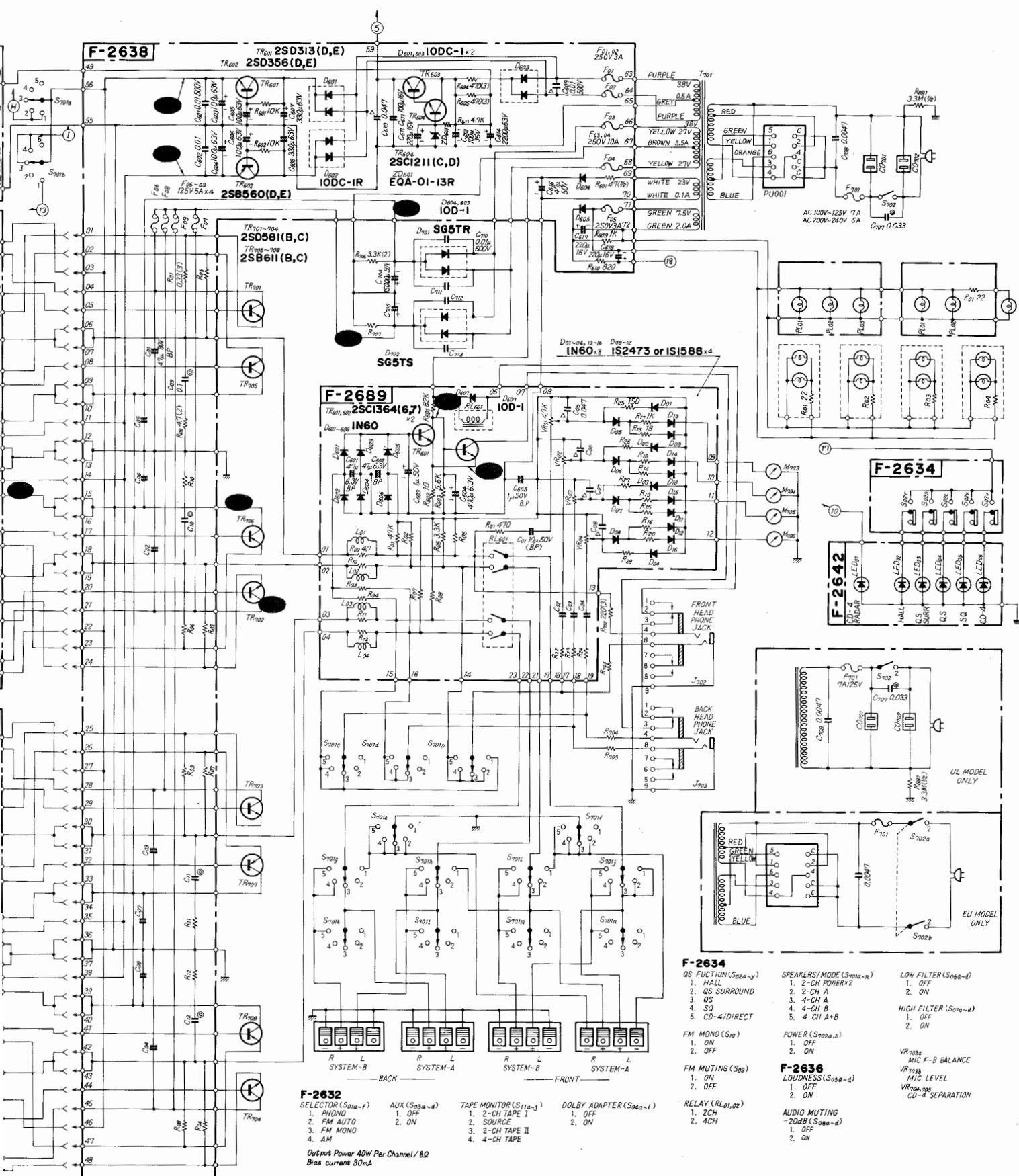
* La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
* Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.
* Design and specifications subject to change without notice for improvements.



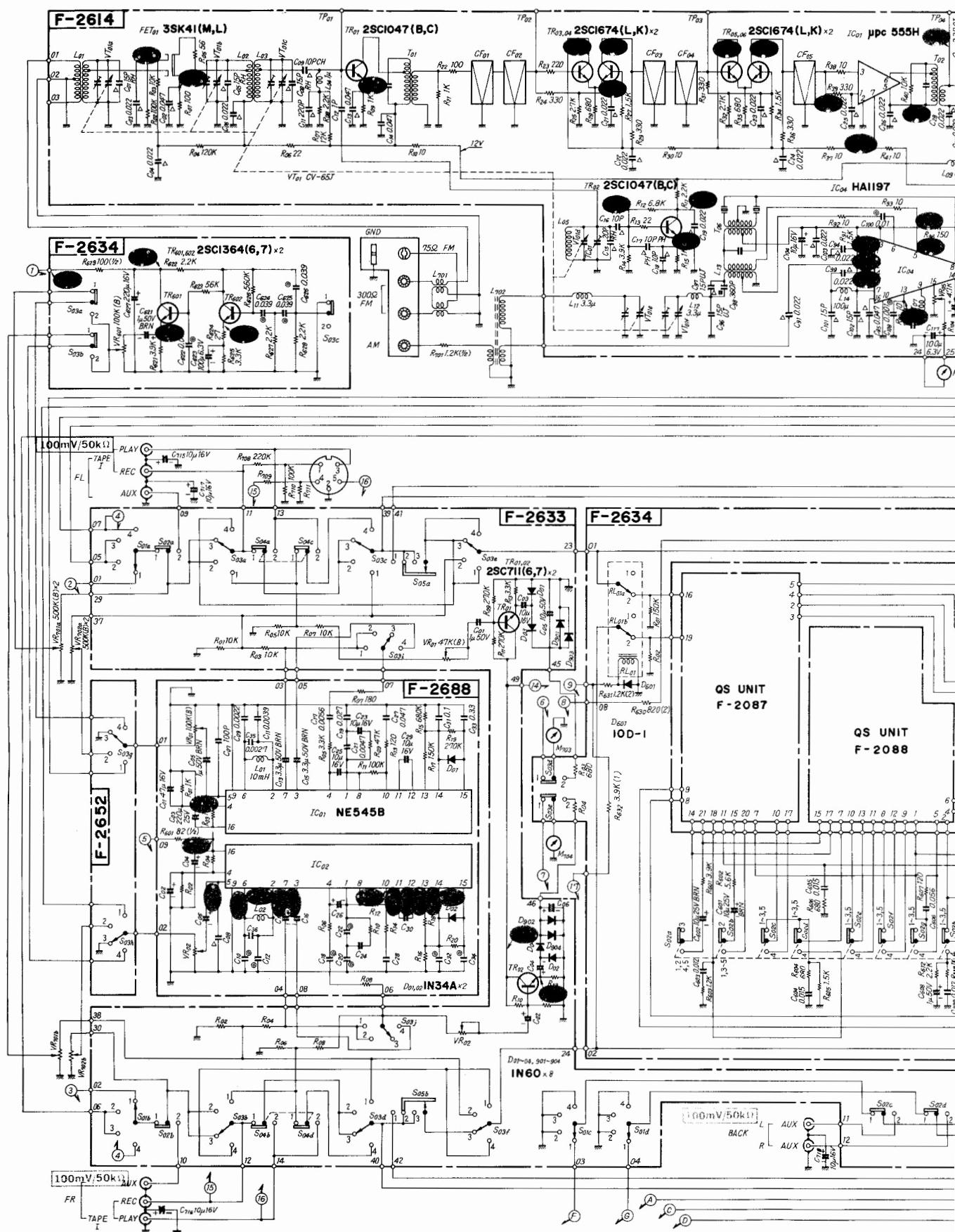
7-2. QRX-8001 Audio Section



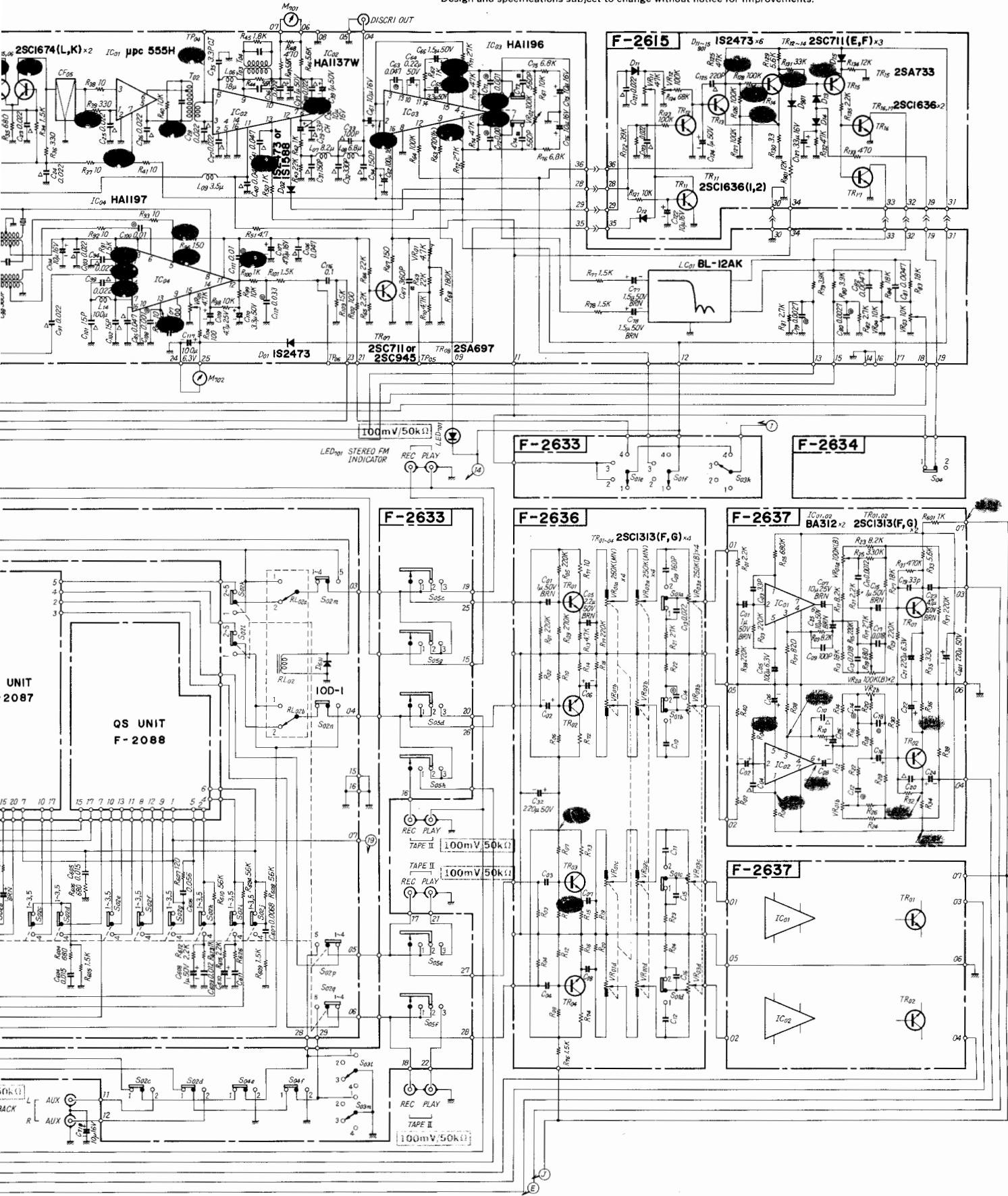
- La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
- Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.
- Design and specifications subject to change without notice for improvements.



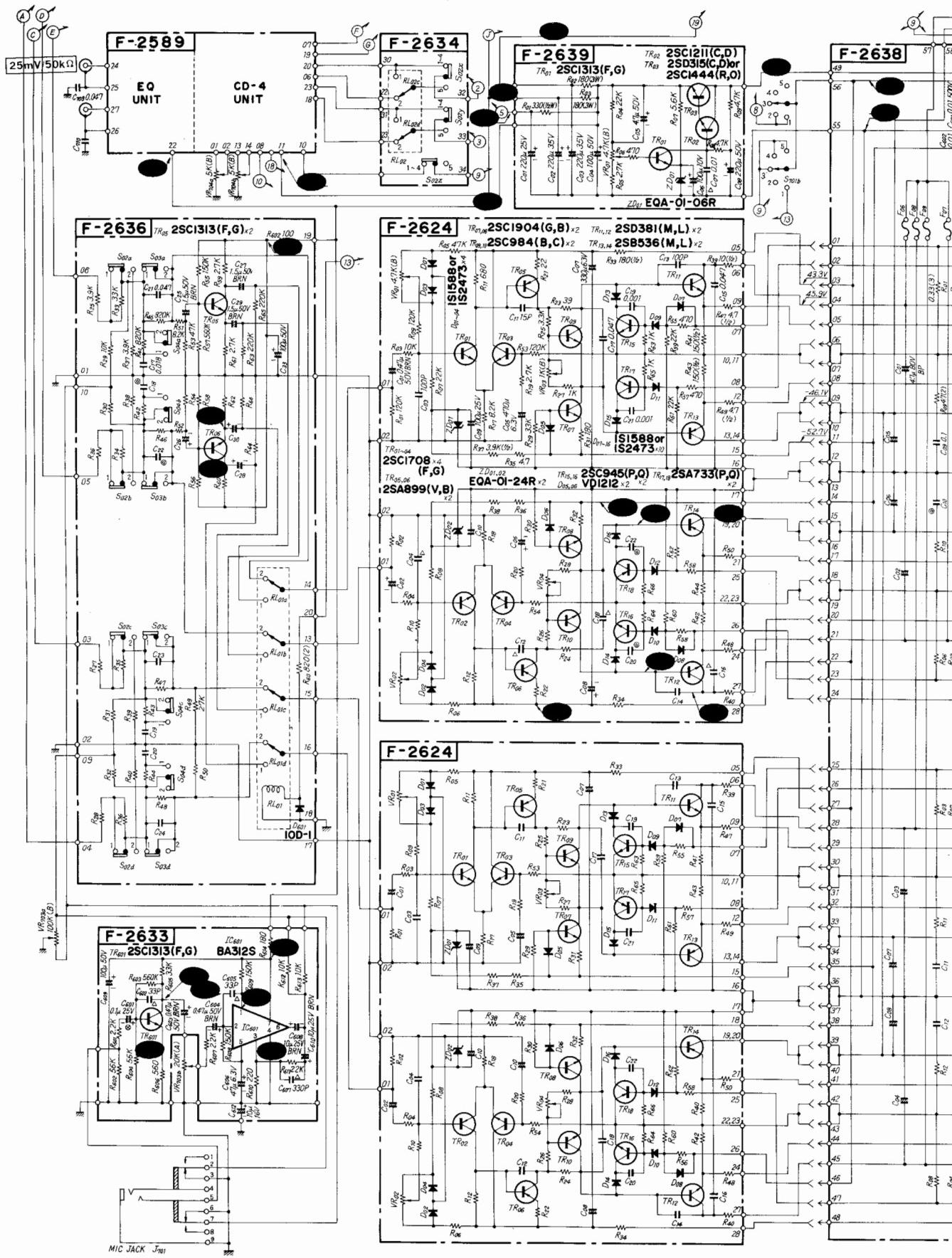
7-3. QRX-9001 Tuner Section



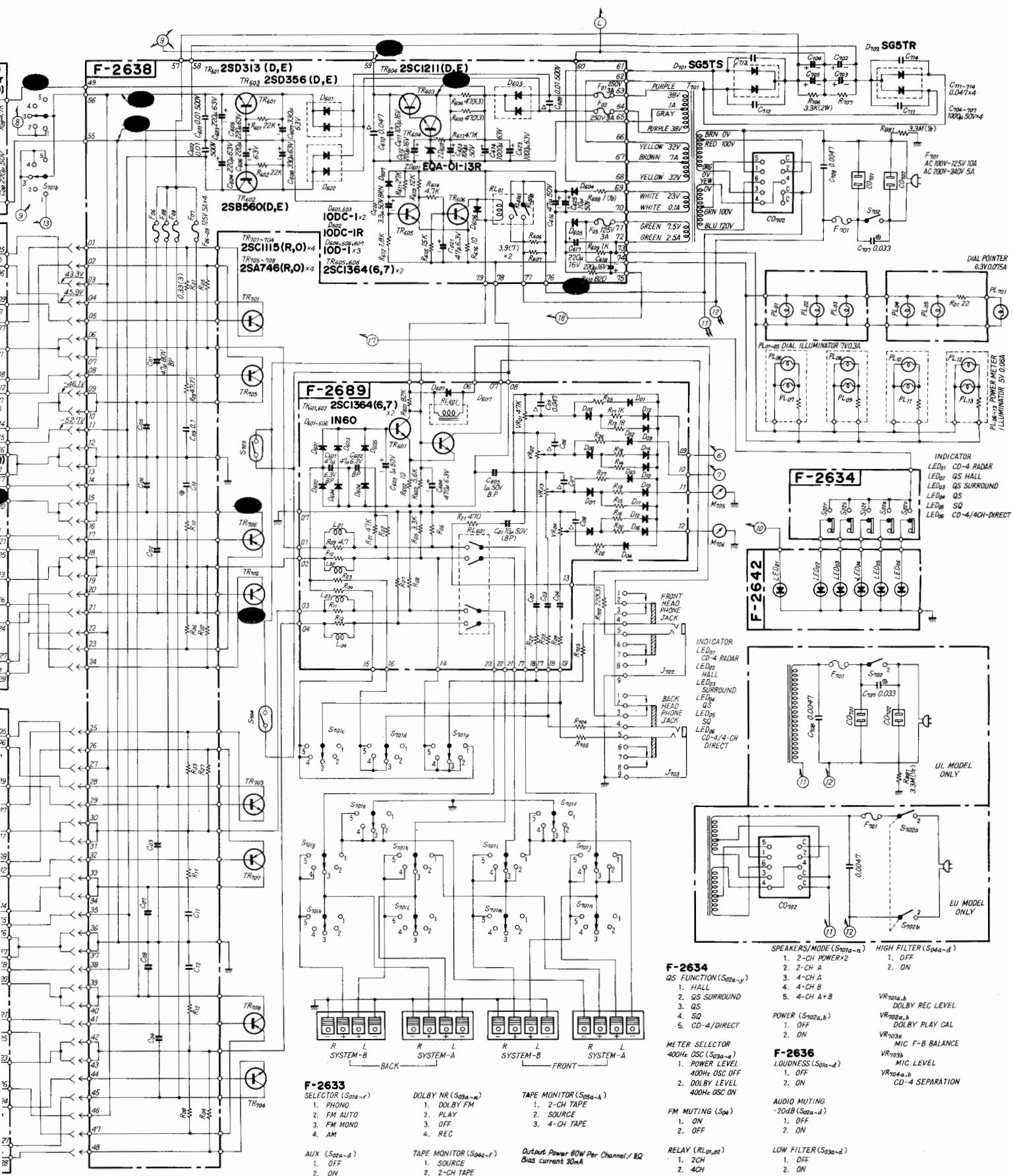
* La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
* Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.
* Design and specifications subject to change without notice for improvements.



7-4. QRX-9001 Audio Section

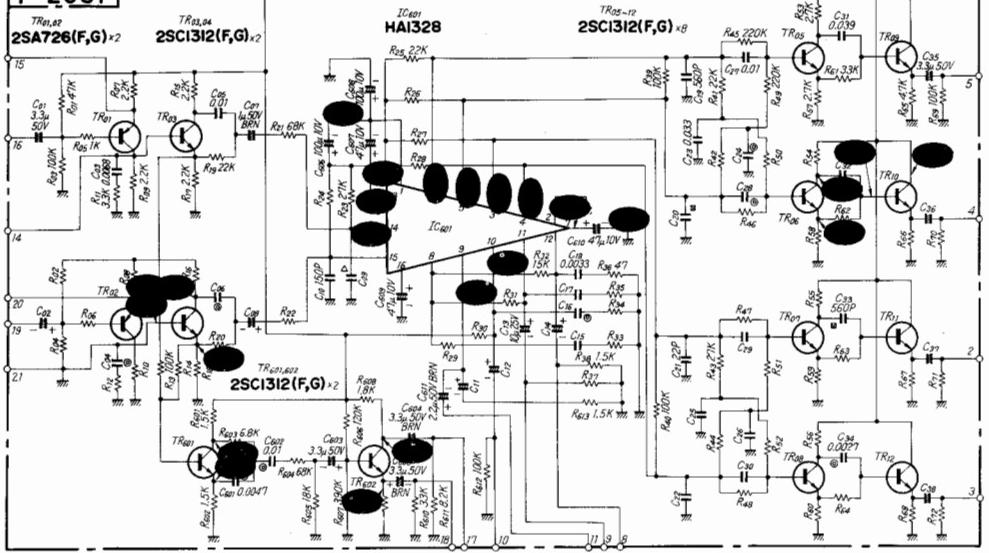


* La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
Anderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.
* Design and specifications subject to change without notice for improvements.

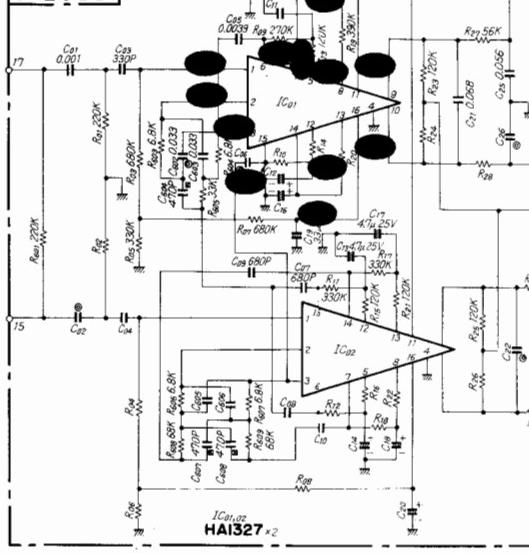


7-5. QRX-8001/9001 4-Channel Section

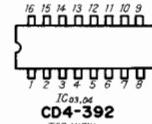
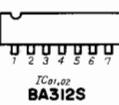
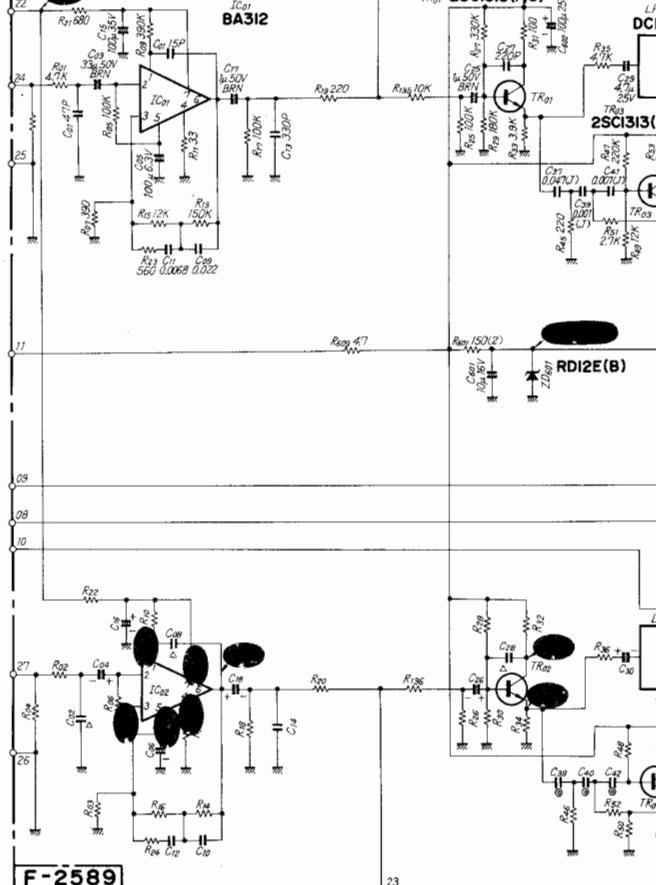
F-2087



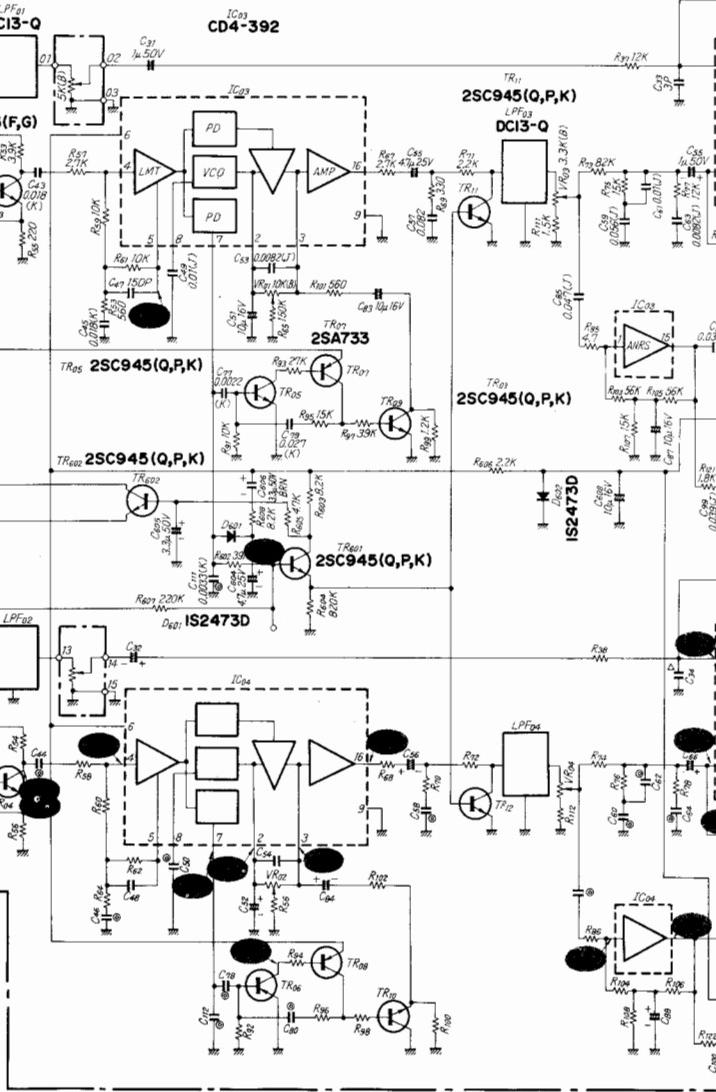
F-2088



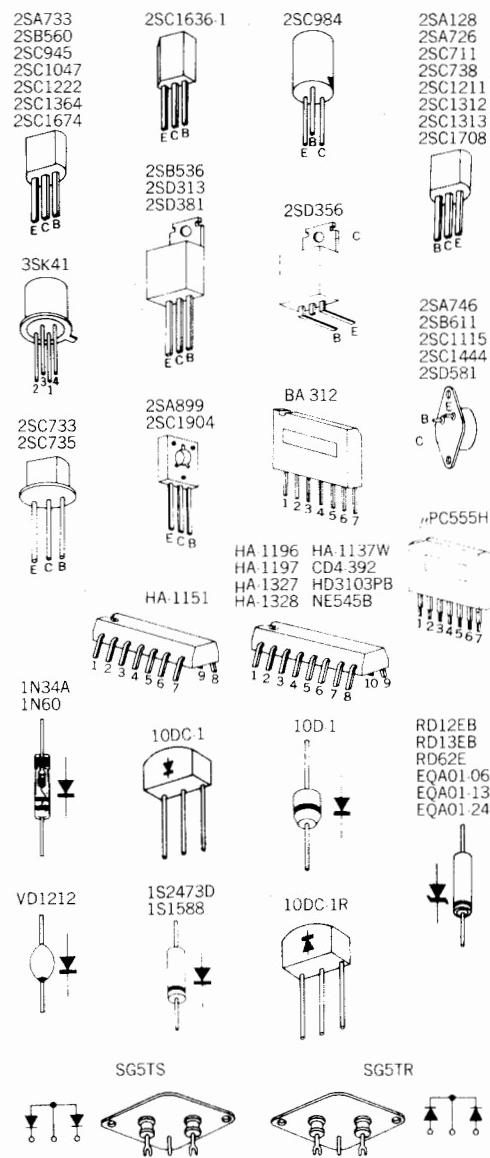
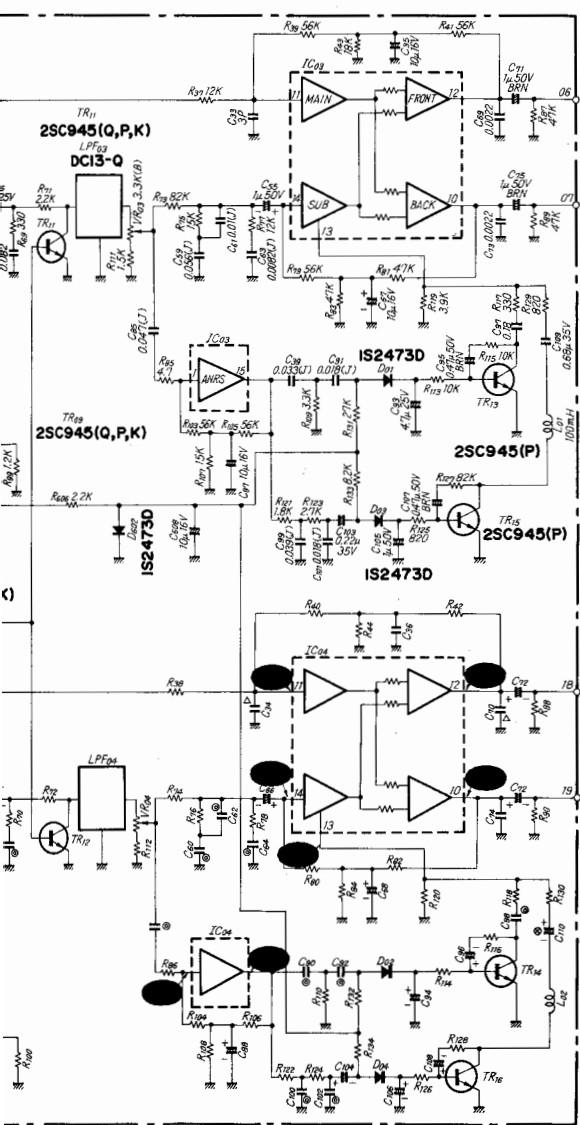
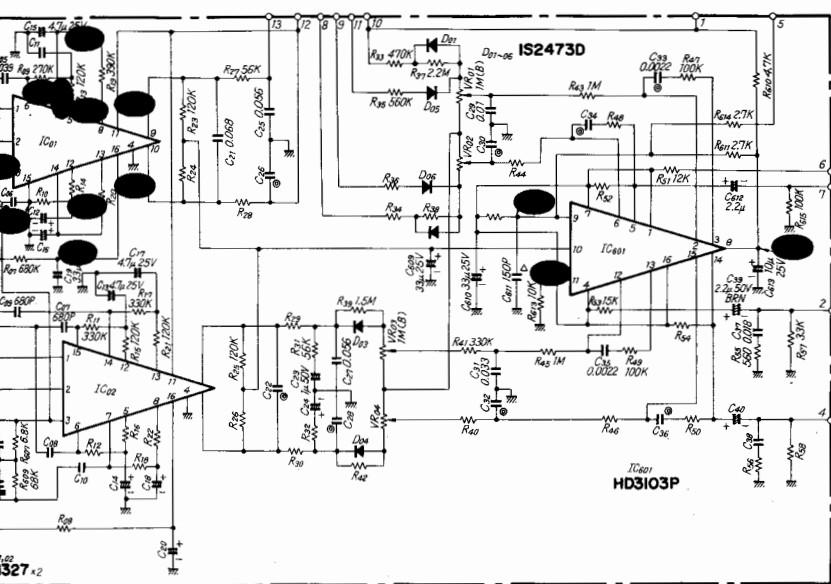
F-2589



OUT E O
IN O NC
TOP VIEW
LPF01-04
DC13-Q



présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suite d'améliorations éventuelles.
Ferungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.
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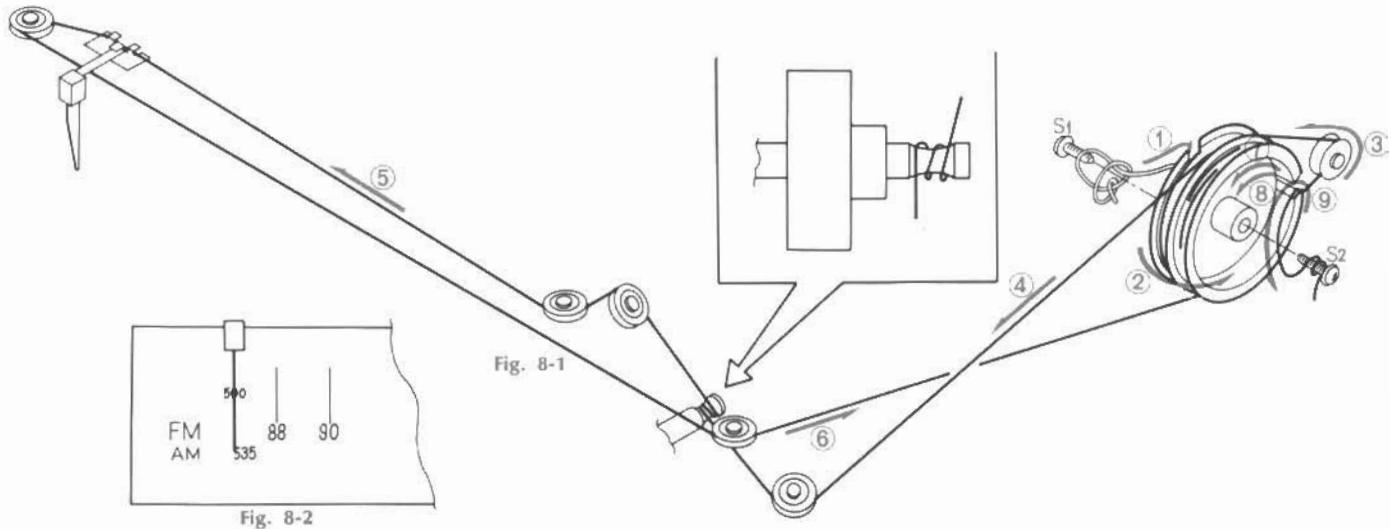


8. THREADING OF DIAL CORD

*If a dial cord is cut off or slips, replace it by following procedures.

As this units use 0.6mm ϕ cord, please replace it with the same type certainly.

*The length of dial cord is approximately 190cm (74 inch).



8-1. Threading of Dial Cord

Thread the dial cord in numerical order from ① to ⑨ as Fig. 8-1.

- 1) Close the variable capacitor completely (Max. capacitance).
- 2) Tie dial cord to the screw, S1 of the dial pulley.
- 3) Thread cord in the direction of arrow from ① to ⑨
- 4) After ⑨, tie the cord to the screw S2 of the dial pulley.

8-2. Attachment of Dial Pointer

1) Close the variable capacitor completely.

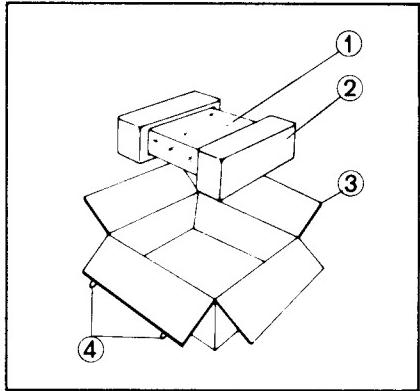
2) Set the dial pointer as Fig. 8-2.

*Confirm that the dial pointer runs smoothly on the dial scale by turning the tuning shaft.

Stock No.	Description
6036050	Dial Cord (0.6mm ϕ)
6146670	44 Type Pulley

9. PACKING LIST

Parts No.	Stock No.	Description
1	9116631	Vinyl Cover
2	9028010	Stylofoam Packing
3	{9009290 9009280}	Carton Case (MODEL QRX-8001) Carton Case (MODEL QRX-9001)
4	5996080	Curl Stopper



10. ACCESSORY PARTS LIST

Stock No.	Description
9202400	Operating Instructions (MODEL QRX-8001)
9202410	Operating Instructions (MODEL QRX-9001)
9237440	Schematic Diagram (MODEL QRX-8001)
9237430	Schematic Diagram (MODEL QRX-9001)
9416010	CD-4 Adjusting Record (MODEL QRX-9001)

Sansui

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